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## ABSTRACT

This publication is based on data from several federal surveys from all accredited institutions of higher education. Three of them are: the Completions Survey conducted by the National Center for Education Statistics; the U.S. Department of Education's Survey of Degrees and Other Formal Awards Conferred; and the Survey of Earned Doctorates. These data cover earned degrees conferred in the aggregate United States in science and engineering during the period from Earned Doctorates. These data cover earned degrees conferred in the aggregate United States in science and engineering during the period from June, 1985 through June, 1993. The first section contains data highlights for degrees awarded to underrepresented minorities by the following fields: psychology, social science, biological science, mathematics, physical sciences, engineering, agriculture, and computer Higher Education General Information Survey/Integrated Postsecondary Education Data System classification system. The last two sections definitions of racial/ethnic categories and historical changes in the Higher Education General Information Survey/Integrated Postsecondary Education Data System classification system. The last two sections contain statistical charts and tables. (MKR)

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# Science and Engineering Degrees, by Race/Ethnicity of Recipients

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1985-93

## Detailed Statistical Tables

Division of Science Resources Studies  
Directorate for Social, Behavioral and Economic Sciences

National Science Foundation



NSF 95-330

# **Science and Engineering Degrees, by Race/Ethnicity of Recipients**

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**1985–93**

**Detailed Statistical Tables**

**Susan T. Hill, Author**

**Division of Science Resources Studies  
Directorate for Social, Behavioral and Economic Sciences**



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**National Science Foundation**

**NSF 95-330**

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Tabulations were performed by Quantum Research Corp. for the National Science Foundation. The author for this report was Susan T. Hill.

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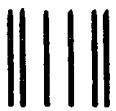
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# CONTENTS

<i>Section</i>	<i>Page</i>
General Notes .....	xi
A. Data Highlights .....	1
B. Technical Notes .....	5
C. Statistical Charts .....	25
D. Detailed Statistical Tables .....	37

# GENERAL NOTES

This publication is based on data obtained by the National Center for Education Statistics, U.S. Department of Education, from all accredited institutions of higher education. These data cover earned degrees conferred in the aggregate United States, which includes the 50 States, the District of Columbia, and the U.S. Territories and Outlying Areas (American Samoa, the former Canal Zone, the Northern Mariana Islands, Puerto Rico, the U.S. Virgin Islands, and the Trust Territory of the Pacific Islands). Degree data are compiled for a 12-month period, July of one year through June of the following year. For convenience, degrees for such a given 12-month period will be referred to by the year in which the period ended, e.g., 1993 means the 12-month period ending June 1993.

There were changes in the classification of fields between 1985–91 and 1992–93. See the Technical Notes for information on the field classifications used. Because racial/ethnic data were collected by broad fields of study only, the definition of science and engineering used by the National Science Foundation (NSF) for this report must include fields normally not included. There is one instance where this difference has a large impact—the broad field of “Social

Sciences.” The U.S. Department of Education includes the field of history in this broad category, so when it collects the racial/ethnic data, this field is included.

Before 1985, the broad category of “Engineering” included engineering technologies. This report is different from earlier reports in that it excludes engineering technologies so that trend data by race/ethnicity are more consistent with the definition of science and engineering used in other NSF reports. If the reader is interested in earlier data for science fields (that are consistent from 1977 to 1993), please request *Science and Engineering Degrees, by Race/Ethnicity of Recipients: 1977–91*, NSF 94-306.

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## **SECTION A.**

### **DATA HIGHLIGHTS**

# TRENDS IN BACHELOR'S DEGREES AWARDED TO RACIAL/ETHNIC MINORITIES IN SCIENCE AND ENGINEERING

The number of bachelor's degrees in science and engineering (S&E) fields awarded to underrepresented minority students showed robust growth in the early 1990s, after a period of relatively slow growth from 1985 to 1990. From 1990 to 1993, the number of baccalaureate recipients with degrees in S&E increased 34 percent for blacks, 32 percent for Hispanics, and 43 percent for American Indians. The percentage increases for underrepresented minority groups were higher than the percentage increases found among white recipients (10 percent) and Asian recipients (26 percent) (table A).

**Table A. Science and engineering bachelor's degrees, by race/ethnicity of recipients: percentage change, 1985–90 and 1990–93**

Race/ethnicity	1985–90	1990–93
White, non-Hispanics .....	-4%	10%
Asians or Pacific Islanders .....	46%	26%
Underrepresented minorities, total .....	10%	34%
Black, non-Hispanics .....	7%	34%
Hispanics .....	16%	32%
American Indians or Alaskan Natives .....	-8%	43%

SOURCE: NSF/SRS tabulations of National Center for Education Statistics Completions Survey data

In 1993 there were similar numbers of black bachelor's degree recipients in S&E (24,421) and Asian recipients (24,504). The number of Hispanics earning bachelor's degrees in S&E fields hit an all-time high of 18,442, as did American Indians, 1,819.

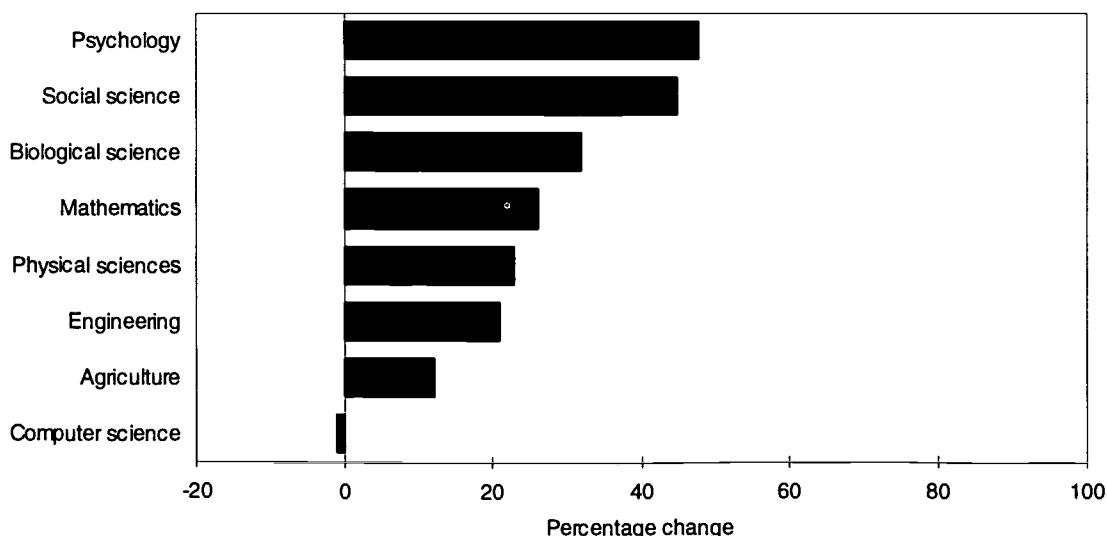
Among underrepresented minority groups, the increases in baccalaureate degrees vary by field of science or engineering. From 1990 to 1993 the percentage changes in baccalaureates awarded to underrepresented groups ranged from a 1-percent decrease in computer science degrees to an increase of 48 percent in psychology degrees (chart A).

Underrepresented minorities comprised 28 percent of the "college-age" population (18–24 years old) in 1993, whereas baccalaureates earned by underrepresented minority students accounted for only 12 percent of the total S&E degrees in 1993.

Degree awards have increased more in the social sciences, fields in which there is a slightly higher concentration of S&E bachelor's degree recipients among underrepresented minorities (59 percent) than among whites (56 percent).

Among S&E baccalaureate recipients in 1993, a slightly lower percentage of underrepresented minorities majored in engineering (13 percent) than did whites (15 percent), and the percentages of these groups choosing natural sciences were even more similar (table B).

**Chart A. Science and engineering degrees awarded to underrepresented minorities, by field: percentage change, 1990–93**



SOURCE: NSF/SRS tabulations of National Center for Education Statistics Completions Survey data

**Table B. S&E bachelor's degree recipients, by broad field: percentage distribution, 1993**

Race/ethnicity	Engineering	Natural sciences	Social sciences
Underrepresented minorities .....	13	28	59
Whites .....	15	29	56
Asians .....	26	39	35

Although these slight differences exist, the gaps once found between the field choices of underrepresented minorities and whites have virtually disappeared. One-third of all bachelor's degree recipients of all racial/ethnic groups (except Asians, at 49 percent) chose S&E fields in 1993.

## **SECTION B.**

### **TECHNICAL NOTES**

## INTRODUCTION

This report is based on final data from several Federal surveys. Two of them are the U.S. Department of Education's Survey of Degrees and Other Formal Awards Conferred, and the Completions Survey conducted annually by the National Center for Education Statistics (NCES) as part of the Higher Education General Information Survey (HEGIS), later renamed the Integrated Postsecondary Education Data System (IPEDS). The third is the Survey of Earned Doctorates, conducted annually for the National Science Foundation (NSF) and four other Federal agencies by the National Research Council. Each source is described in more detail in the following sections.

Data from the Survey of Degrees and Other Formal Awards Conferred and from the Completions Survey were used to report the number of bachelor's and master's degrees. The data on doctoral degrees in this report were derived from the Survey of Earned Doctorates, which surveyed all individuals earning research doctorates, rather than from the Completions Survey, which surveyed the institutions awarding the doctorates. The Earned Doctorate data were preferred because the data provided by individuals are more specific with respect to the field of specialization and are less prone to errors in data reporting and data entry than are the data provided by institutions. Furthermore, doctorate data provide 100 percent coverage for data by field and sex of individual recipients, whereas institutional data are subject to imputation for nonresponse. For a comparison of reporting on doctoral degrees in the Completions Survey and the Survey of Earned Doctorates, see National Science Foundation, *Science and Engineering Doctorates: 1960-91*, NSF 93-301, Detailed Statistical Tables (Washington, DC, 1993).

In this report the racial and ethnic categories among U.S. citizens who were degree recipients during the 1985-93 period are charted and tabulated. It is recognized that the concept of race/ethnicity is as much a socially constructed characteristic as a biological one. Scholars such as Farley and Allen have noted that "the sociological reality of race is more important than its biological reality. Race

exerts a profound influence over the lives of people in this society."<sup>1</sup>

The following five racial/ethnic categories are required in Federal Government surveys of institutions:

Black, non-Hispanic  
American Indian or Alaskan Native  
Asian or Pacific Islander  
Hispanic  
White, non-Hispanic

Persons who are U.S. citizens or foreign citizens admitted for permanent residence are classified into the above categories. The ethnic category of Hispanic took precedence over the racial categories in the data collection. In addition, nonresident aliens, i.e., those admitted to the United States for temporary residence, are separately identified as a sixth category in the survey. The nonresident aliens are not to be reported in the aforementioned racial/ethnic groups.

The definitions for the racial/ethnic categories used in the survey are as follows:

**Nonresident alien**—A person who is not a citizen or national of the United States and who is in this country on a temporary basis and does not have the right to remain indefinitely. Resident aliens who are not citizens of the United States and who have been lawfully admitted for permanent residence (and who hold alien registration receipt cards—Form I-551/155) are to be reported in the appropriate racial/ethnic categories along with U.S. citizens.

**Black, non-Hispanic**—A person having origins in any of the black racial groups of Africa (except those of Hispanic origin).

**American Indian or Alaskan Native**—A person having origins in any of the original peoples of North America and who maintains cultural identification through tribal affiliation or community recognition.

<sup>1</sup> Richard Farley and Walter R. Allen, *The Color Line and the Quality of Life in America* (New York: Russell Sage Foundation, 1987), p. 6.

**Asian or Pacific Islander**—A person having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands. These areas include, for example, China, Japan, Korea, the Philippine Islands, and Samoa.

**Hispanic**—A person of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.

**White, non-Hispanic**—A person having origins in any of the original peoples of Europe, North Africa, or the Middle East (except those of Hispanic origin).

For the bachelor's and master's degree data, the manner of collecting racial and ethnic data is left to the discretion of the institution, provided that the system established results in reasonably accurate data. The information is gathered by NCES for the Office of Civil Rights, U.S. Department of Education, in compliance with title I of the Civil Rights Act of 1964 and title IX of the Education Amendments of 1972.

## BACHELOR'S AND MASTER'S DEGREE DATA

Bachelor's and master's degree data presented in this report were derived from two surveys conducted by NCES: the Survey of Degrees and Other Formal Awards Conferred and the Completions Survey. Data for the year 1985 are from the Degrees Survey conducted as part of HEGIS. Data for 1987 to 1993 are from the Completions Survey, which is a component of IPEDS. IPEDS has replaced HEGIS as the new postsecondary education data collection system for NCES. Data from the HEGIS and IPEDS surveys are comparable for the variables used in this report.

These surveys requested data on the number of associate's, bachelor's, master's, doctoral, and first-professional degrees conferred by institutions of higher education. The data were requested according to sex of recipient and field of study for each degree level. Data on the race/ethnicity of degree recipients were collected biennially by NCES for the Office of Civil Rights from 1985 through 1989 and annually since then. A major limitation is that data are

collected only at the broad field level<sup>2</sup> and according to the Federal racial/ethnic designations of degree recipients.

The surveys were mailed to all accredited universities and colleges in the United States, including the U.S. territories, for completion by the institution. Followup for nonresponse and editing was conducted by letter and telephone. The overall response rate for institutions of higher education ranged between 94 and 96 percent between 1985 and 1993.

Some institutions provided only the total number of completions, by award level and by sex; others provided the number of completions by award level, sex, and field but did not provide racial/ethnic data.

Imputations for the years 1985 through 1993 were computer generated. Imputations were developed for institutions that did not provide complete racial/ethnic data. Some of these institutions had reported total degrees awarded but not racial/ethnic data, and others had reported totals that were larger or smaller than the sum of the racial/ethnic components.

In the first case, wherein institutions did not report any racial/ethnic data by field, NCES imputed data on the basis of an earlier response for each institution, if available.

The following table indicates the percentage of imputed data in 1993, by award level and racial/ethnic category.

Race/ethnicity	Bachelor's	Master's
White, non-Hispanics .....	1.0	1.8
Black, non-Hispanics .....	1.3	2.1
Hispanics .....	1.3	2.6
Asians or Pacific Islanders .....	1.6	3.0
American Indians or Alaskan Natives .....	0.6	0.8
Nonresident aliens .....	1.2	2.7
Race/ethnicity unknown .....	1.7	7.0

<sup>2</sup> Broad field level refers to the 2-digit program levels in U.S. Department of Education, National Center for Education Statistics, *Classification of Instructional Programs* (Washington, DC: GPO, 1991).

In the second case, wherein racial/ethnic data were reported but did not add to the total degree recipients, NCES distributed the difference among the racial/ethnic groups for that institution. *Note:* This report, however, does not do that; unknowns are shown in the table.

In examining data on degrees awarded to minorities, it must be noted that 1 to 5 percent of all S&E degrees awarded in 1985–93 were awarded to individuals whose race/ethnicity was unknown. This unknown category could affect trends and observable changes in the number and share of awards received by minority students, particularly if there are shifts from year to year in the number of degree recipients with unknown race/ethnicity. As tables 1–3 indicate, the share of degrees awarded to individuals whose race/ethnicity was unknown varied somewhat by degree level.

This National Science Foundation report differs from those published by NCES in that data for the U.S. territories are included, whereas NCES excludes them from most of its published reports.

## DOCTORAL DEGREE DATA

In the Survey of Earned Doctorates, information is collected during the period of July 1 of one year to

June 30 of the next from all persons who have fulfilled the requirements for a research doctorate. The survey is funded jointly by NSF and four other agencies: the U.S. Department of Education, the National Institutes of Health, the National Endowment for the Humanities, and the U.S. Department of Agriculture. The National Research Council sends the survey forms to all accredited doctorate-granting institutions for distribution by the graduate deans to all research doctorate recipients as they complete degree requirements. Information collected in the survey comprises demographic data, such as the student's sex, citizenship, and racial/ethnic group; education history, including field of degrees; sources of graduate student support; employment status during the year preceding receipt of the doctorate; postgraduation plans; and background on parents' education. Approximately 92 to 95 percent of the doctorate recipients complete and return the survey forms. For nonrespondents, commencement programs constituted a source of skeletal information that was added to the file. These variables were sex, field of study, institution, year of doctorate, and educational background. Data are updated annually from completed survey forms submitted belatedly by previous nonrespondents, so numbers may change slightly in the future updates.

**Historical Changes in the Higher Education General Information Survey (HEGIS)/  
Integrated Postsecondary Education Data System (IPEDS)  
Classification System**

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–93	Fields of study from the Survey of Earned Doctorates classification
<b>SCIENCE AND ENGINEERING (S&amp;E)</b>  <b>ENGINEERING</b> 14 Engineering	<b>SCIENCE AND ENGINEERING (S&amp;E)</b>  <b>ENGINEERING</b> 14 Engineering	<b>SCIENCE AND ENGINEERING (S&amp;E)</b>  <b>ENGINEERING</b>  <b>Aeronautical/Astronautical Engineering</b> 300 Aerospace, Aeronautical, and Astronautical Engineering  <b>Chemical Engineering</b> 312 Chemical Engineering 366 Petroleum Engineering 369 Polymer and Plastics Engineering 547 Fuel Technology and Petroleum Engineering  <b>Civil Engineering</b> 315 Civil Engineering 336 Environmental Health Engineering  <b>Electrical Engineering</b> 318 Communications Engineering 321 Computer Engineering 322 Electrical Engineering 323 Electronics Engineering 324 Electrical and Electronics Engineering  <b>Industrial Engineering</b> 339 Industrial and Manufacturing Engineering  <b>Mechanical Engineering</b> 327 Engineering Mechanics 345 Mechanical Engineering

**Historical Changes in the Higher Education General Information Survey (HEGIS)/  
Integrated Postsecondary Education Data System (IPEDS)  
Classification System—continued**

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–93	Fields of study from the Survey of Earned Doctorates classification
<b>SCIENCES</b> <b>NATURAL SCIENCES</b> <b>Physical Science</b> 40 Physical Sciences (Includes Earth/Atmospheric/ Oceanographic Sciences)	<b>SCIENCES</b> <b>NATURAL SCIENCES</b> <b>Physical Science</b> 40 Physical Sciences (Includes Earth/Atmospheric/ Oceanographic Sciences)	<b>Materials/Metallurgical Engineering</b> 309 Ceramic Sciences 342 Materials Science 348 Metallurgical Engineering  <b>Other Engineering</b> 303 Agricultural Engineering 306 Bioengineering and Biomedical Engineering 330 Engineering Physics 333 Engineering Science 351 Mining and Mineral Engineering 354 Naval Architecture and Marine Engineering 357 Nuclear Engineering 360 Ocean Engineering 363 Operations Research 372 Systems Engineering 375 Textile Engineering 398 Engineering, General 399 Engineering, Other

**Historical Changes in the Higher Education General Information Survey (HEGIS)/  
Integrated Postsecondary Education Data System (IPEDS)  
Classification System—continued**

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–93	Fields of study from the Survey of Earned Doctorates classification
		<p>532 Polymer Chemistry      534 Theoretical Chemistry      538 Chemistry, General      539 Chemistry, Other</p> <p><b>Physics</b></p> <p>560 Acoustics      561 Chemical and Atomic/Molecular Physics      562 Electron Physics      563 Electromagnetic Physics      564 Elementary Particle Physics      566 Fluids      567 Mechanics      568 Nuclear Physics      569 Optics      570 Plasma and High-Temperature Physics      572 Polymer Physics      573 Thermal Physics      574 Solid State and Low-Temperature Physics      575 Theoretical Physics      578 Physics, General      579 Physics, Other</p> <p><b>Other Physical Sciences</b></p> <p>599 Physical Sciences, Other</p> <p><b>Atmospheric Sciences</b></p> <p>510 Atmospheric Physics and Chemistry      512 Atmospheric Dynamics      514 Meteorology      518 Atmospheric Science/Meteorology, General      519 Atmospheric Science/Meteorology, Other</p> <p><b>Geosciences</b></p> <p>540 Geology      542 Geochemistry</p>

**Historical Changes in the Higher Education General Information Survey (HEGIS)/  
Integrated Postsecondary Education Data System (IPEDS)  
Classification System—continued**

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–93	Fields of study from the Survey of Earned Doctorates classification
<b>Mathematical Science</b> 27 Mathematics	<b>Mathematical Science</b> 27 Mathematics	<p><b>Geosciences</b></p> <p>544 Geophysics and Seismology          545 Geophysics (Solid Earth)          546 Paleontology          548 Mineralogy and Petrology          549 Mineralogy, Petrology, and Geochemistry          550 Stratigraphy and Sedimentation          552 Geomorphology and Glacial Geology          554 Applied Geology          555 Applied Geology and Geological Engineering          558 Geological and Related Sciences, General          559 Geological and Related Sciences, Other          585 Hydrology and Water Resources</p> <p><b>Oceanography</b>          590 Oceanography          595 Marine Sciences</p> <p><b>Other Environmental Sciences</b>          580 Environmental Science</p> <p><b>MATHEMATICAL/COMPUTER SCIENCES</b></p> <p><b>Mathematics</b></p> <p>420 Applied Mathematics          425 Algebra          430 Analysis and Functional Analysis          435 Geometry          440 Logic          445 Number Theory          450 Mathematical Statistics          455 Topology          460 Computing Theory and Practice          465 Operations Research</p>

**Historical Changes in the Higher Education General Information Survey (HEGIS)/  
Integrated Postsecondary Education Data System (IPEDS)  
Classification System—continued**

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–93	Fields of study from the Survey of Earned Doctorates classification
<b>Computer Science</b> 11 Computer and Information Sciences	<b>Computer Science</b> 11 Computer and Information Sciences	498 Mathematics, General 499 Mathematics, Other  <b>Computer Science</b> 400 Computer Science 410 Information Science and Systems
<b>Agricultural Science</b> 02 Agricultural Sciences 03 Renewable Natural Resources	<b>Agricultural Science</b> 02 Agricultural Sciences 03 Conservation and Renewable Natural Resources	<b>BIOLOGICAL/ AGRICULTURAL SCIENCES</b> <b>Agricultural Sciences</b> 005 Animal Breeding and Genetics 007 Animal Husbandry 010 Animal Nutrition 012 Dairy Science 014 Poultry Science 019 Animal Sciences, Other 020 Agronomy and Crop Science 025 Plant Breeding and Genetics 030 Plant Pathology 032 Plant Protection/Pest Management 039 Plant Sciences, Other 040 Food Sciences 042 Food Distribution 043 Food Engineering 044 Food Sciences, Other 045 Soil Sciences 046 Soil Chemistry and Microbiology 049 Soil Sciences, Other 050 Horticulture Science 054 Fish and Wildlife 055 Fisheries Science and Management 060 Wildlife Management 065 Forestry Sciences 066 Forest Biology 068 Forest Engineering 070 Forest Management

**Historical Changes in the Higher Education General Information Survey (HEGIS)/  
Integrated Postsecondary Education Data System (IPEDS)  
Classification System—continued**

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–93	Fields of study from the Survey of Earned Doctorates classification
<b>Biological Science</b> 26 Biological Sciences/Life Sciences	<b>Biological Science</b> 26 Biological Sciences/Life Sciences	072 Wood Science and Pulp/ Paper Technology 074 Conservation and Renewable Natural Resources 079 Forestry and Related Sciences 080 Wildlife and Range Management 098 Agricultural Science, General 099 Agricultural Science, Other

**Historical Changes in the Higher Education General Information Survey (HEGIS)/  
Integrated Postsecondary Education Data System (IPEDS)  
Classification System—continued**

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–93	Fields of study from the Survey of Earned Doctorates classification
<p>SOCIAL SCIENCES</p> <p><b>Social Science</b></p> <p>05 Area and Ethnic Studies</p> <p>45 Social Sciences</p>	<p>SOCIAL SCIENCES</p> <p><b>Social Science</b></p> <p>05 Area, Ethnic, and Cultural Studies</p> <p>45 Social Sciences and History</p>	<p>175 Pathology, Human and Animal</p> <p>180 Pharmacology, Human and Animal</p> <p>185 Physiology, Human and Animal</p> <p>186 Animal and Plant Physiology</p> <p>189 Zoology, Other</p> <p>198 Biological Sciences, General</p> <p>199 Biological Sciences, Other</p> <p><b>SOCIAL SCIENCES</b></p> <p><b>Economics</b></p> <p>000 Agricultural Economics</p> <p>666 Economics</p> <p>668 Econometrics</p> <p><b>Political Science</b></p> <p>674 International Relations/Affairs</p> <p>678 Political Science and Government</p> <p>679 Political Science and Public Administration</p> <p>682 Public Policy Analysis</p> <p>976 Public Administration</p> <p><b>Sociology</b></p> <p>662 Demography and Population Studies</p> <p>686 Sociology</p> <p><b>Other Social Sciences</b></p> <p>650 Anthropology</p> <p>652 Area Studies</p> <p>658 Criminology</p> <p>670 Geography</p> <p>690 Statistics</p> <p>694 Urban Affairs/Studies</p> <p>698 Social Sciences, General</p> <p>699 Social Sciences, Other</p>

**Historical Changes in the Higher Education General Information Survey (HEGIS)/  
Integrated Postsecondary Education Data System (IPEDS)  
Classification System—continued**

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–93	Fields of study from the Survey of Earned Doctorates classification
<b>Psychology</b> 42 Psychology	<b>Psychology</b> 42 Psychology	<b>Psychology</b> 600 Clinical Psychology 603 Cognitive Psychology and Psycholinguistics 606 Comparative Psychology 609 Counseling Psychology 612 Developmental and Child Psychology 615 Experimental Psychology 616 Experimental, Comparative, and Physiological Psychology 618 Educational Psychology 619 Human Engineering 621 Industrial and Organizational Psychology 624 Personality Psychology 627 Physiological Psychology/Psychobiology 630 Psychometrics 633 Quantitative Psychology 636 School Psychology 639 Social Psychology 648 Psychology, General 649 Psychology, Other
<b>NON-S&amp;E</b>  01 Agribusiness and Agricultural Production 04 Architecture and Environmental Design 06 Business and Management	<b>NON-S&amp;E</b>  01 Agricultural Business and Production 04 Architecture and Related Programs	<b>MEDICAL SCIENCES</b>  205 Dentistry 210 Environmental Health 215 Public Health 219 Public Health and Epidemiology

**Historical Changes in the Higher Education General Information Survey (HEGIS)/  
Integrated Postsecondary Education Data System (IPEDS)  
Classification System—continued**

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–93	Fields of study from the Survey of Earned Doctorates classification
07 Business (Administrative Support), Other	08 Marketing Operations/Marketing and Distribution	220 Epidemiology 225 Medicine and Surgery 235 Optometry and Ophthalmology 240 Pharmacy 250 Veterinary Science
08 Marketing and Distribution	09 Communications	
09 Communications	10 Communications Technologies	
12 Consumer, Personal, and Miscellaneous Services	12 Personal and Miscellaneous Services	<b>OTHER SCIENCES</b>
13 Education	13 Education	200 Speech/Language Pathology and Audiology
16 Foreign Languages	15 Engineering-Related Technologies	212 Health Systems/Services Administration
17 Allied Health	16 Foreign Languages and Literatures	224 Hospital Administration 230 Nursing
18 Health Sciences (Including Dentistry, Medicine, Optometry, Osteopathic Medicine, Pharmacy, Podiatry or Podiatric Medicine or Chiropody, Veterinary Medicine, Chiropractic)	17 Allied Health 18 Health Professions and Related Sciences (Including Dentistry, Medicine, Optometry, Osteopathic Medicine, Pharmacy, Podiatry or Podiatric Medicine or Chiropody, Veterinary Medicine, Chiropractic, Allied Health)	245 Rehabilitation/Therapeutic Services 298 Health Sciences, General 299 Health Sciences, Other
19 Home Economics	19 Home Economics	<b>HISTORY</b>
20 Vocational Home Economics	20 Vocational Home Economics	700 History, American 705 History, European 718 History, General 719 History, Other
22 Law	22 Law and Legal Studies	
23 Letters	23 English Language and Literature/Letters	<b>ENGLISH AND LITERATURE</b>
24 Liberal/General Studies	24 Liberal/General Studies	720 Classics 723 Comparative Literature 725 English and American Literature
25 Library and Archival Sciences	25 Library and Archival Sciences	726 English Language 732 Literature, American 733 Literature, English 734 English Language
28 Military Sciences	28 Reserve Officer Training Corps (ROTC)	736 Speech and Rhetorical Studies
29 Military Technologies	29 Military Technologies	738 Letters, General 739 Letters, Other
30 Multi-/Interdisciplinary Studies	30 Multi-/Interdisciplinary Studies	
31 Parks and Recreation	31 Parks, Recreation, Leisure, and Fitness Studies	<b>FOREIGN LANGUAGES</b>
38 Philosophy and Religion	38 Philosophy and Religion	740 French
39 Theology	39 Theological Studies and Religious Vocations	743 German
41 Science Technologies	41 Science Technologies	
44 Public Affairs (Does not include Parks and Recreation Management, and Law Enforcement and Correction)		
43 Protective Services		
46 Construction Trades		
47 Mechanics and Repairers		
48 Precision Production		

**Historical Changes in the Higher Education General Information Survey (HEGIS)/  
Integrated Postsecondary Education Data System (IPEDS)  
Classification System—continued**

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–93	Fields of study from the Survey of Earned Doctorates classification
49 Transportation and Material Moving 50 Visual and Performing Arts	43 Protective Services 44 Public Administration and Services (Does not include Parks and Recreation Management, and Law Enforcement and Correction) 46 Construction Trades 47 Mechanics and Repairers 48 Precision Production Trades 49 Transportation and Materials Moving Workers 50 Visual and Performing Arts 52 Business Management and Administrative Services	<b>Italian</b> <b>Spanish</b> <b>Russian</b> <b>Slavic (Other than Russian)</b> <b>Chinese</b> <b>Japanese</b> <b>Hebrew</b> <b>Arabic</b> <b>Other Languages and Literature</b>  <b>OTHER HUMANITIES</b> 785 Philosophy (See also 440) 798 Humanities, General 799 Humanities, Other  <b>RELIGION AND THEOLOGY</b> 790 Religion (See also 984) 791 Religion and Theology 984 Theology/Religious Education (See also 790)  <b>ARTS AND MUSIC</b> 774 Art, Applied 775 Art, Fine/Applied 776 Art History/Criticism/Conservation 780 Music 795 Drama/Theater Arts  <b>ARCHITECTURE AND ENVIRONMENTAL DESIGN</b> 960 Architecture and Environmental Design  <b>SCIENCE EDUCATION</b> 884 Science Education  <b>MATHEMATICS EDUCATION</b> 874 Mathematics Education

**Historical Changes in the Higher Education General Information Survey (HEGIS)/  
Integrated Postsecondary Education Data System (IPEDS)  
Classification System—continued**

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–93	Fields of study from the Survey of Earned Doctorates classification
		<p><b>SOCIAL SCIENCE EDUCATION</b>  <b>885 Social Science Education</b></p> <p><b>OTHER SCIENCE/TECHNICAL EDUCATION</b>  <b>860 Agricultural Education</b>  <b>868 Health Education</b>  <b>872 Technical and Industrial Arts Education</b>  <b>878 Nursing Education</b>  <b>887 Technical Education</b></p> <p><b>NON-SCIENCE EDUCATION</b>  <b>800 Curriculum and Instruction</b>  <b>805 Education Administration and Supervision</b>  <b>807 Educational Leadership</b>  <b>810 Educational/Instructional Media Design</b>  <b>812 Early Childhood Education</b>  <b>814 Education Measurement and Statistics</b>  <b>815 Education Statistics/Research Methods</b>  <b>820 Education Assessment, Testing, and Measurement</b>  <b>822 Educational Psychology (See also 618)</b>  <b>825 School Psychology (See also 636)</b>  <b>830 Social/Philosophical Foundations of Education</b>  <b>835 Special Education</b>  <b>840 Counseling Education/Counseling and Guidance Services</b>  <b>845 Education Evaluation and Research</b>  <b>850 Pre-elementary/Early Childhood Teacher Education</b></p>

**Historical Changes in the Higher Education General Information Survey (HEGIS)/  
Integrated Postsecondary Education Data System (IPEDS)  
Classification System—continued**

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–93	Fields of study from the Survey of Earned Doctorates classification
		<p>852 Elementary Teacher Education</p> <p>854 Junior High Teacher Education</p> <p>856 Secondary Teacher Education</p> <p>858 Adult and Continuing Teacher Education</p> <p>861 Art Education</p> <p>862 Business Education</p> <p>864 English Education</p> <p>866 Foreign Languages Education</p> <p>867 Physical Education, Health, and Recreation</p> <p>870 Home Economics Education</p> <p>876 Music Education</p> <p>880 Physical Education and Coaching</p> <p>882 Reading Education</p> <p>886 Speech Education</p> <p>888 Trade and Industrial Education</p> <p>889 Teacher Education, Specific Academic and Vocational Programs, Other</p> <p>898 Education, General</p> <p>899 Education, Other</p> <p><b>BUSINESS AND MANAGEMENT</b></p> <p>002 Agricultural Business and Management</p> <p>900 Accounting</p> <p>905 Banking/Financial Support Services</p> <p>910 Business Administration and Management</p> <p>915 Business/Managerial Economics</p>

**Historical Changes in the Higher Education General Information Survey (HEGIS)/  
Integrated Postsecondary Education Data System (IPEDS)  
Classification System—continued**

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–93	Fields of study from the Survey of Earned Doctorates classification
		<p>917 Management Information Systems/Business Data Processing</p> <p>920 Marketing Management and Research</p> <p>925 Business Statistics</p> <p>930 Operations Research (See also 363, 465)</p> <p>935 Organizational Behavior (See also 621)</p> <p>938 Business Management/Administrative Services, General</p> <p>939 Business Management/Administrative Services, Other</p> <p><b>INFORMATION FIELDS (JOURNALISM, BROADCASTING, LIBRARIANSHIP)</b></p> <p>940 Communications Research</p> <p>945 Journalism</p> <p>947 Mass Communications</p> <p>950 Radio and Television</p> <p>957 Communication Theory</p> <p>958 Communications, General</p> <p>959 Communications, Other</p> <p>972 Library Science</p> <p><b>LAW</b></p> <p>968 Law</p> <p><b>SOCIAL SERVICE PROFESSIONS</b></p> <p>980 Social Service Professions</p> <p><b>VOCATIONAL STUDIES AND HOME ECONOMICS</b></p> <p>964 Home Economics</p>

**Historical Changes in the Higher Education General Information Survey (HEGIS)/  
Integrated Postsecondary Education Data System (IPEDS)  
Classification System—continued**

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–93	Fields of study from the Survey of Earned Doctorates classification
		<b>OTHER NON-SCIENCE FIELDS</b> 974 Parks/Recreation/Leisure/ Fitness 988 Professional Fields, General 989 Professional Fields, Other 999 Other Fields

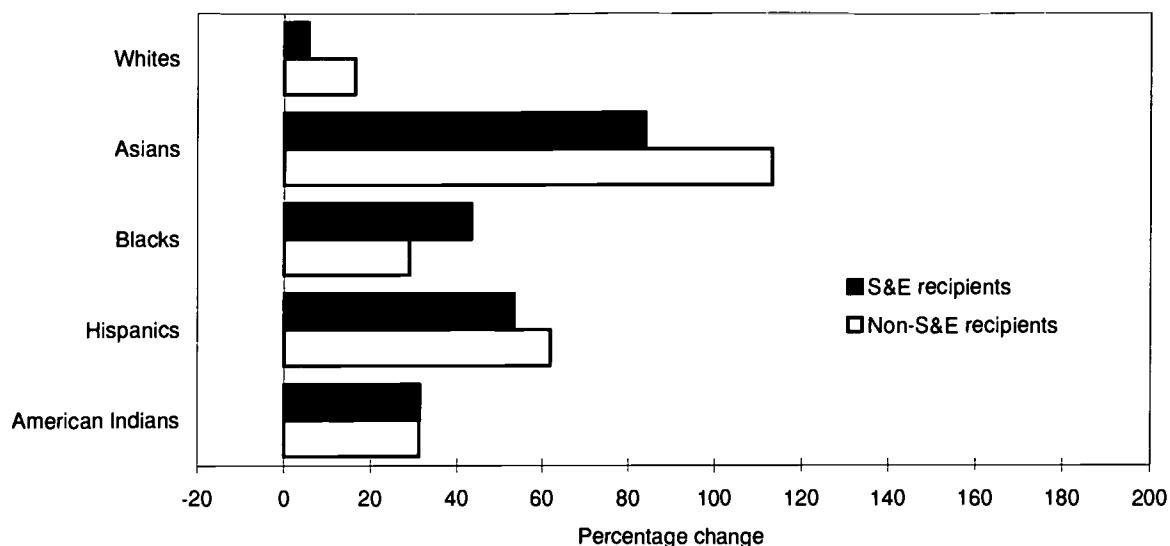
## **SECTION C.**

### **STATISTICAL CHARTS**

## LIST OF CHARTS

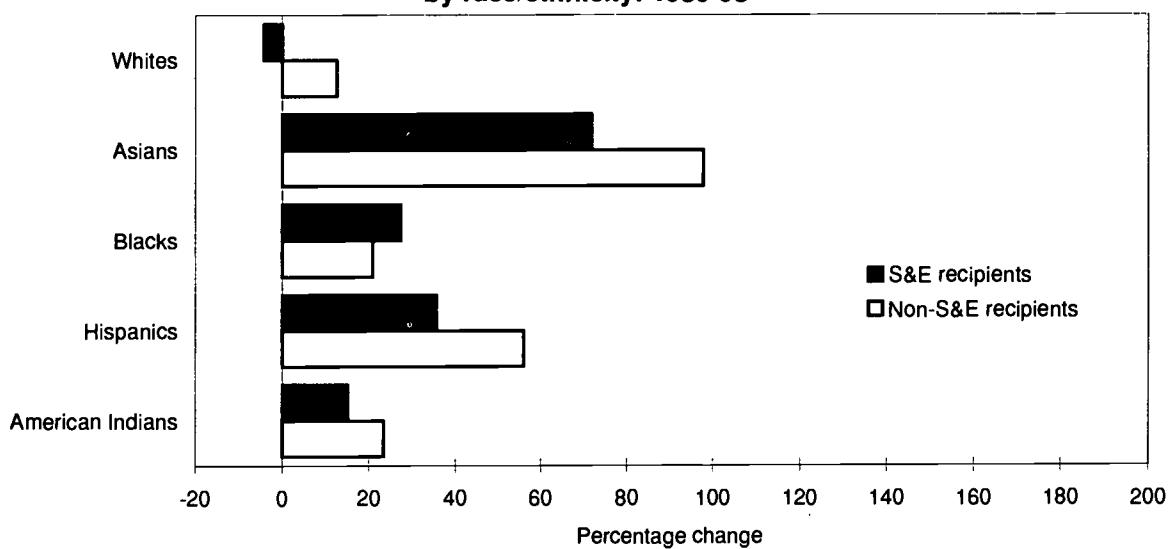
<i>Chart</i>	<i>Page</i>
1. Percentage change in science and engineering and non-S&E bachelor's degrees, by race/ethnicity: 1985–93 .....	29
2. Percentage change in science and engineering and non-S&E bachelor's degrees awarded to men, by race/ethnicity: 1985–93 .....	29
3. Percentage change in science and engineering and non-S&E bachelor's degrees awarded to women, by race/ethnicity: 1985–93 .....	30
4. Percentage change in science and engineering and non-S&E master's degrees, by race/ethnicity: 1985–93 .....	30
5. Percentage change in science and engineering and non-S&E master's degrees awarded to men, by race/ethnicity: 1985–93 .....	31
6. Percentage change in science and engineering and non-S&E master's degrees awarded to women, by race/ethnicity: 1985–93 .....	31
7. Percentage change in science and engineering and non-S&E doctoral degrees, by race/ethnicity: 1985–93 .....	32
8. Percentage change in science and engineering and non-S&E doctoral degrees awarded to men, by race/ethnicity: 1985–93 .....	32
9. Percentage change in science and engineering and non-S&E doctoral degrees awarded to women, by race/ethnicity: 1985–93 .....	33
10. Number of earned science and engineering degrees awarded to whites, by degree level: 1985–93 .....	33
11. Number of earned science and engineering bachelor's degrees awarded to minority groups: 1985–93 .....	34
12. Number of earned science and engineering master's degrees awarded to minority groups: 1985–93 .....	34
13. Number of earned science and engineering doctoral degrees awarded to minority groups: 1985–93 .....	35
14. Percentage of blacks earning science and engineering degrees from historically black colleges and universities, by degree level: 1993 .....	35
15. Percentage of Hispanics earning science and engineering degrees from institutions in Puerto Rico, by degree level: 1993 .....	36

**Chart 1. Percentage change in science and engineering (S&E) and non-S&E bachelor's degrees, by race/ethnicity: 1985-93**



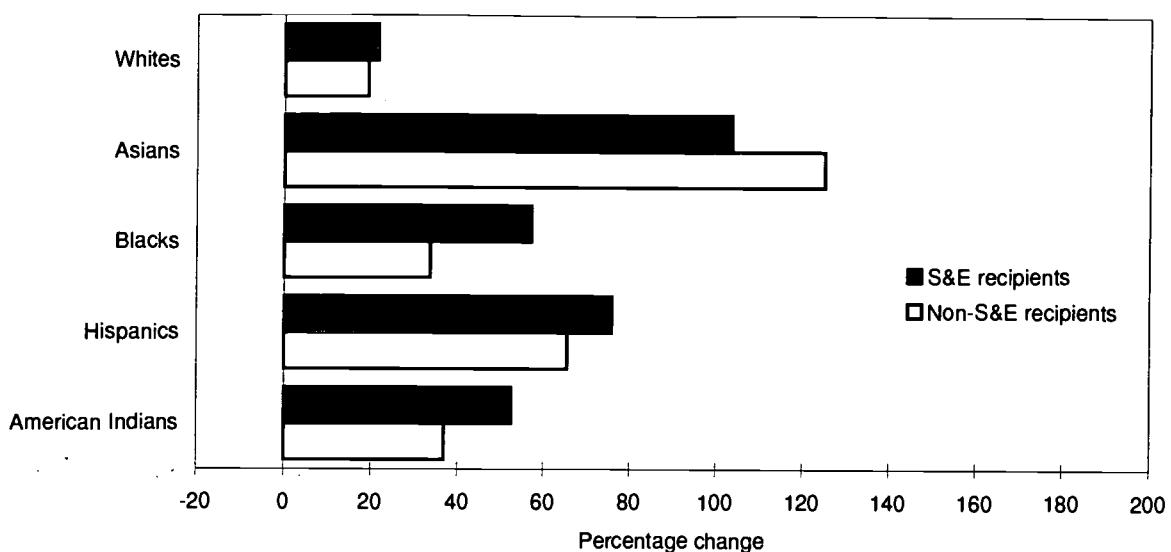
**SOURCES:** Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Survey, 1985, and IPEDS Completions Surveys, 1987-93

**Chart 2. Percentage change in science and engineering (S&E) and non-S&E bachelor's degrees awarded to men, by race/ethnicity: 1985-93**



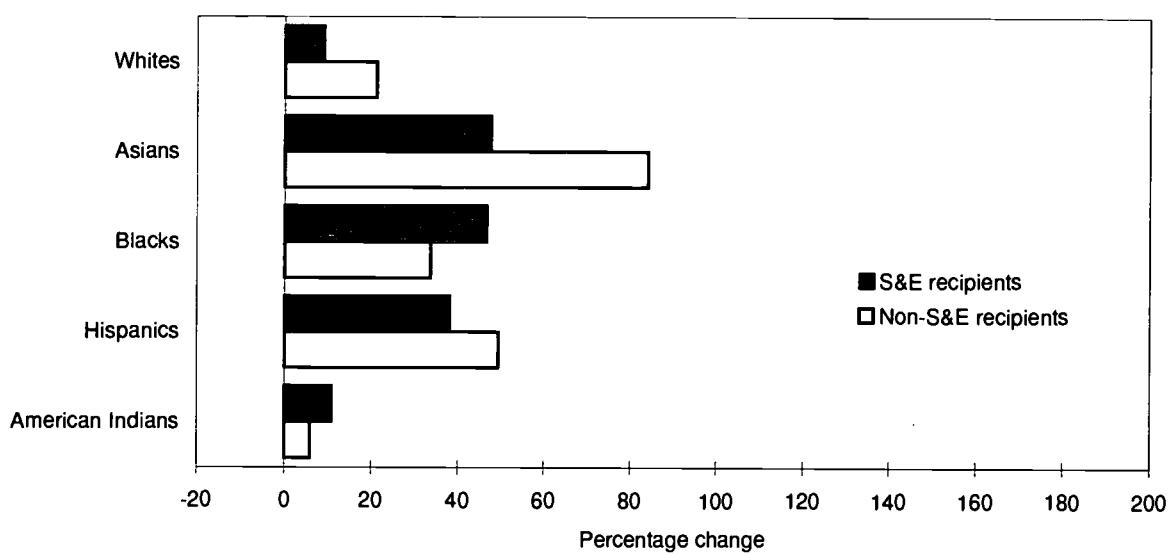
**SOURCES:** Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Survey, 1985, and IPEDS Completions Surveys, 1987-93

**Chart 3. Percentage change in science and engineering (S&E) and non-S&E bachelor's degrees awarded to women, by race/ethnicity: 1985-93**



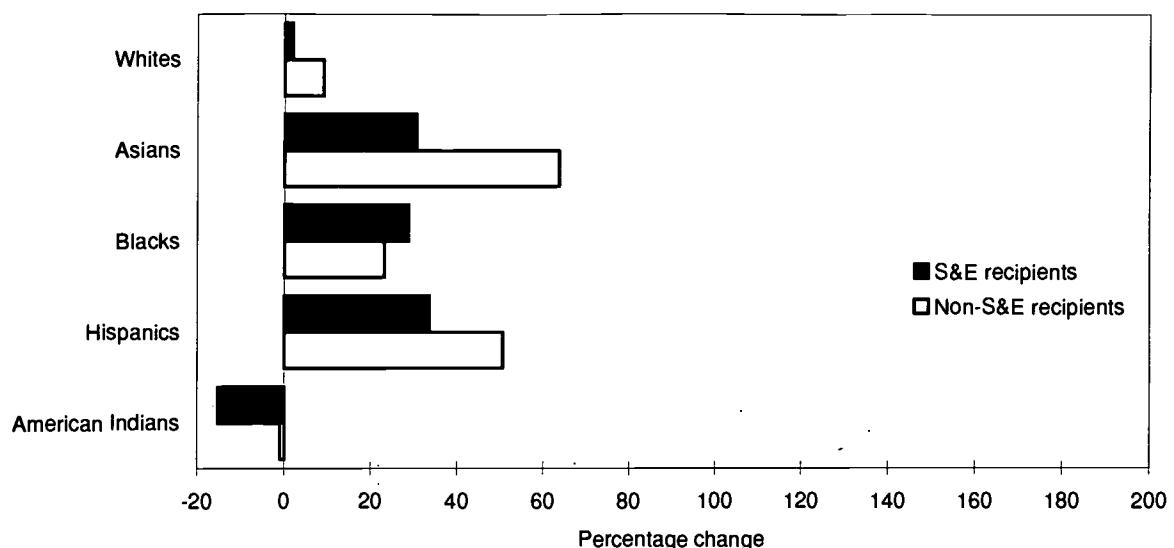
**SOURCES:** Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Survey, 1985, and IPEDS Completions Surveys, 1987-93

**Chart 4. Percentage change in science and engineering (S&E) and non-S&E master's degrees, by race/ethnicity: 1985-93**



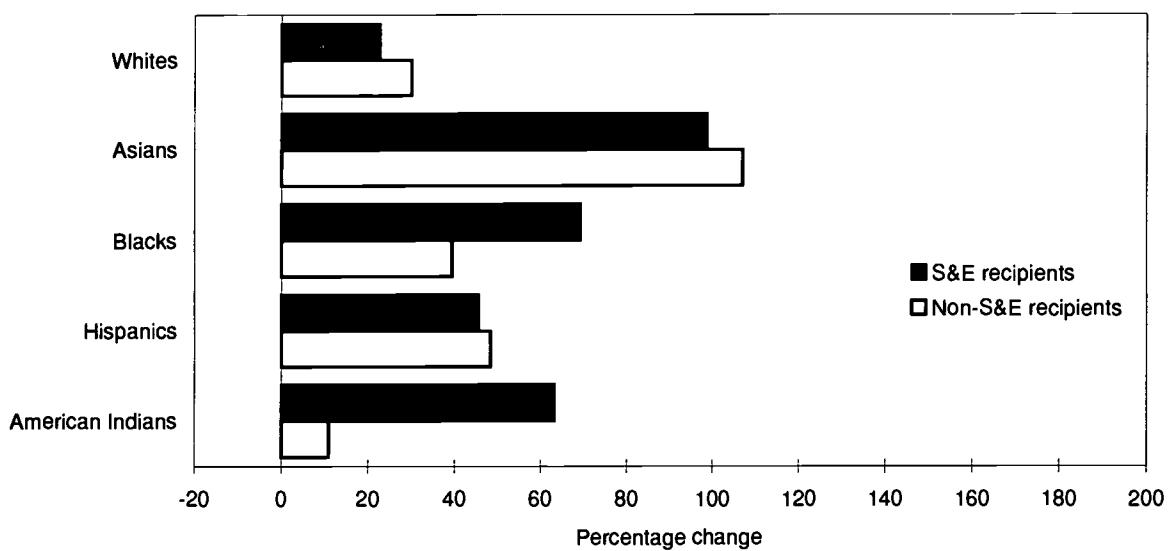
**SOURCES:** Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Survey, 1985, and IPEDS Completions Surveys, 1987-93

**Chart 5. Percentage change in science and engineering (S&E) and non-S&E master's degrees awarded to men, by race/ethnicity: 1985-93**



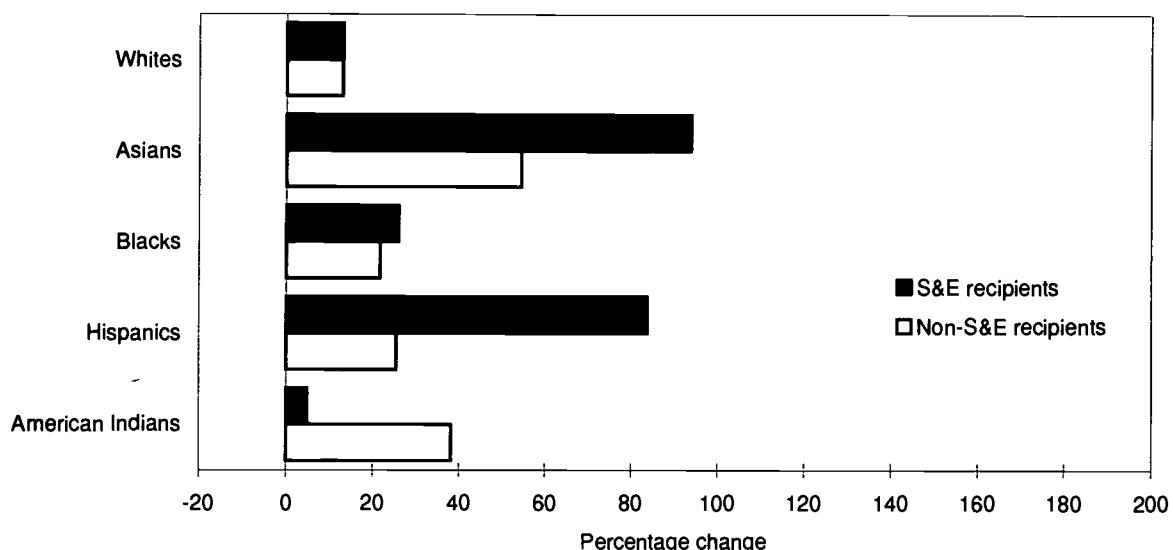
**SOURCES:** Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Survey, 1985, and IPEDS Completions Surveys, 1987-93

**Chart 6. Percentage change in science and engineering (S&E) and non-S&E master's degrees awarded to women, by race/ethnicity: 1985-93**



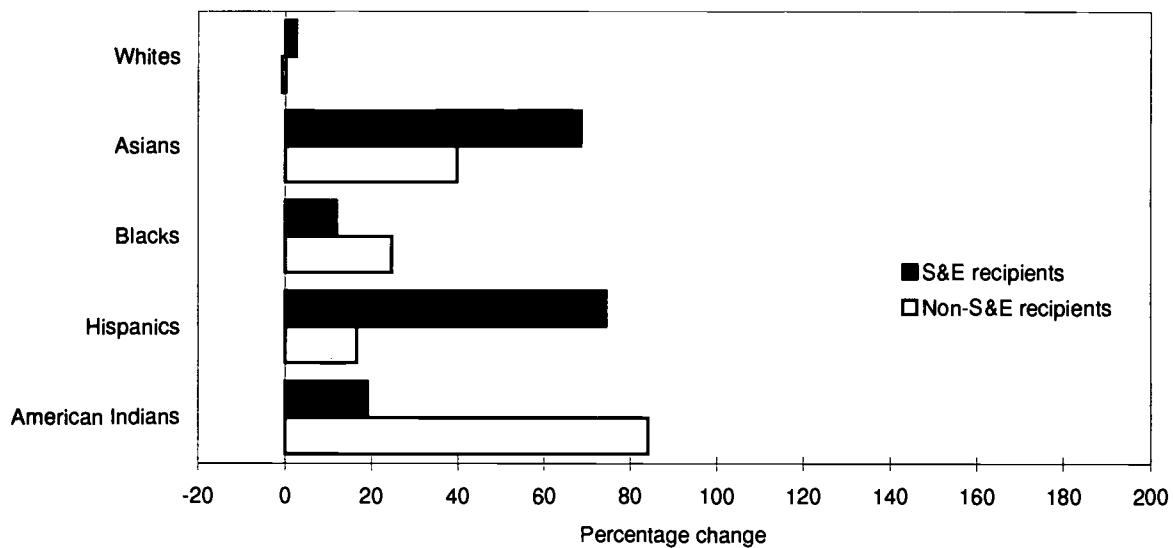
**SOURCES:** Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Survey, 1985, and IPEDS Completions Surveys, 1987-93

**Chart 7. Percentage change in science and engineering (S&E) and non-S&E doctoral degrees, by race/ethnicity: 1985-93**



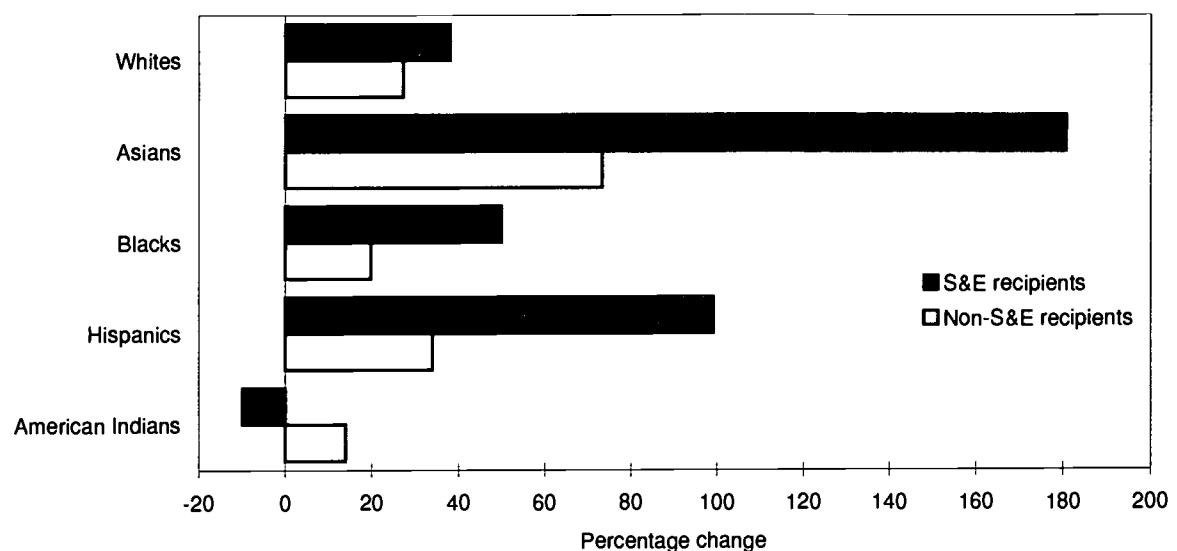
SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**Chart 8. Percentage change in science and engineering (S&E) and non-S&E doctoral degrees awarded to men, by race/ethnicity: 1985-93**



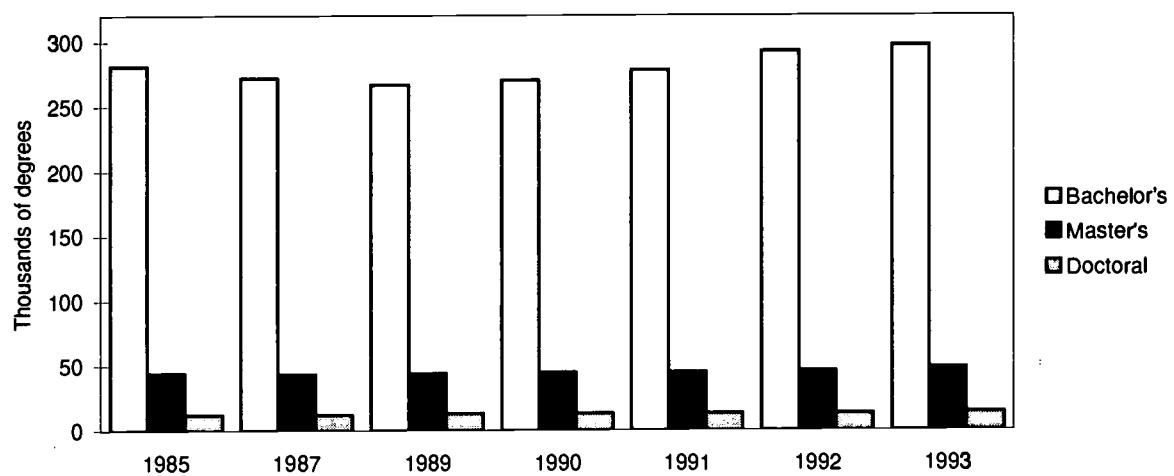
SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**Chart 9. Percentage change in science and engineering (S&E) and non-S&E doctoral degrees awarded to women, by race/ethnicity: 1985-93**



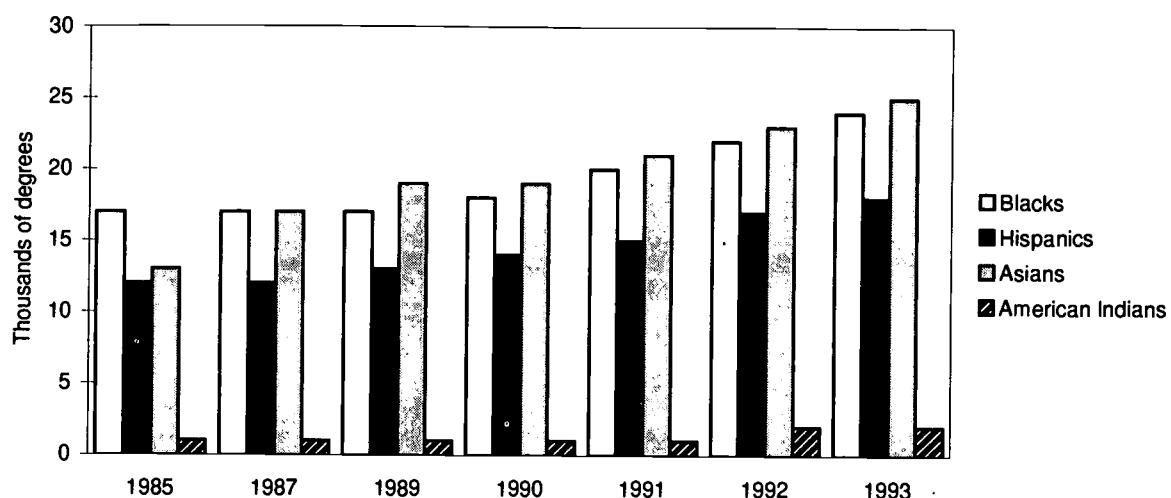
SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**Chart 10. Number of earned science and engineering degrees awarded to whites, by degree level: 1985-93**



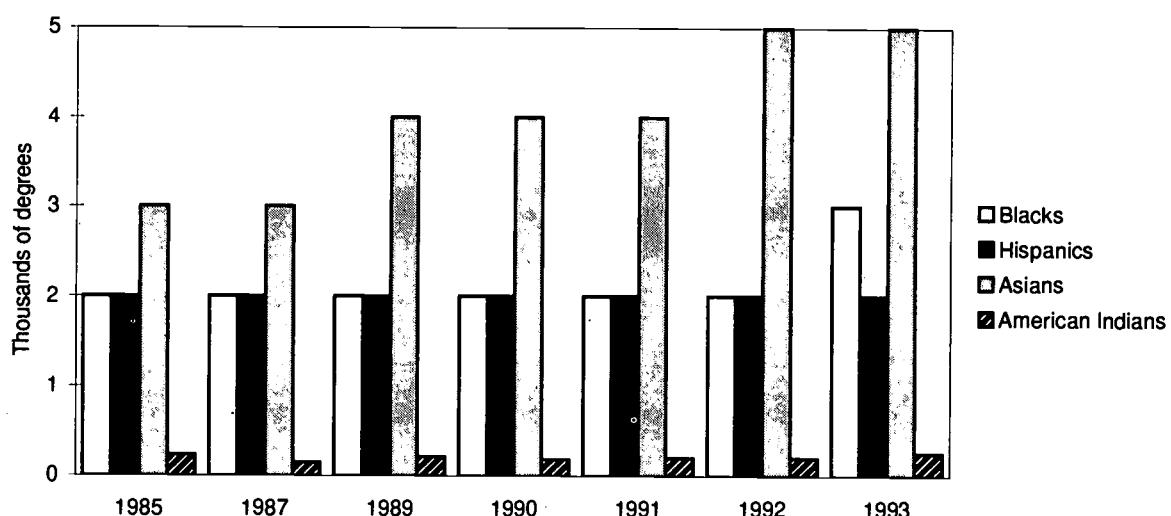
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Survey, 1985, and IPEDS Completions Surveys, 1987-93; doctoral data from NSF/SRS Survey of Earned Doctorates

**Chart 11. Number of earned science and engineering bachelor's degrees awarded to minority groups: 1985-93**



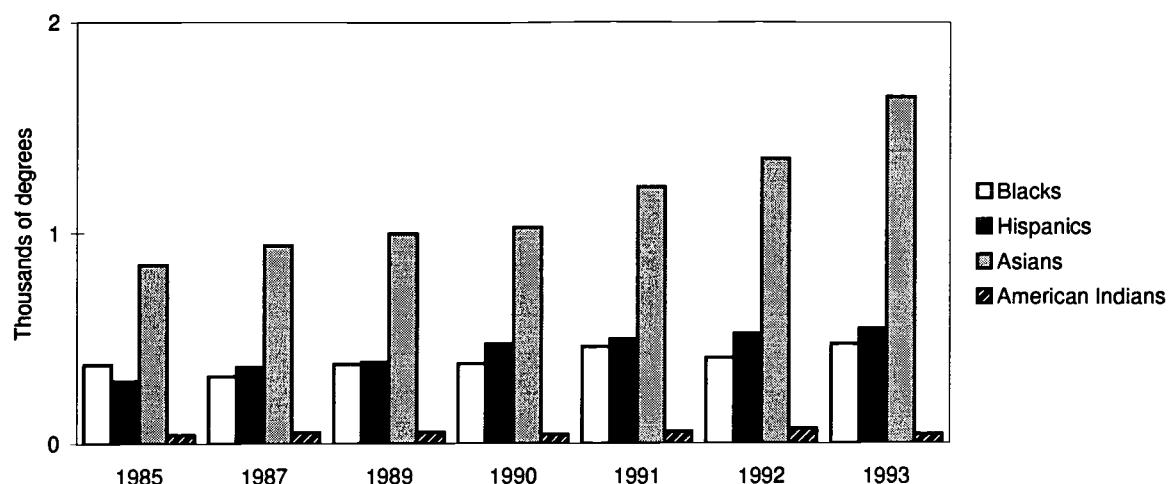
**SOURCES:** Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Survey, 1985, and IPEDS Completions Surveys, 1987-93

**Chart 12. Number of earned science and engineering master's degrees awarded to minority groups: 1985-93**



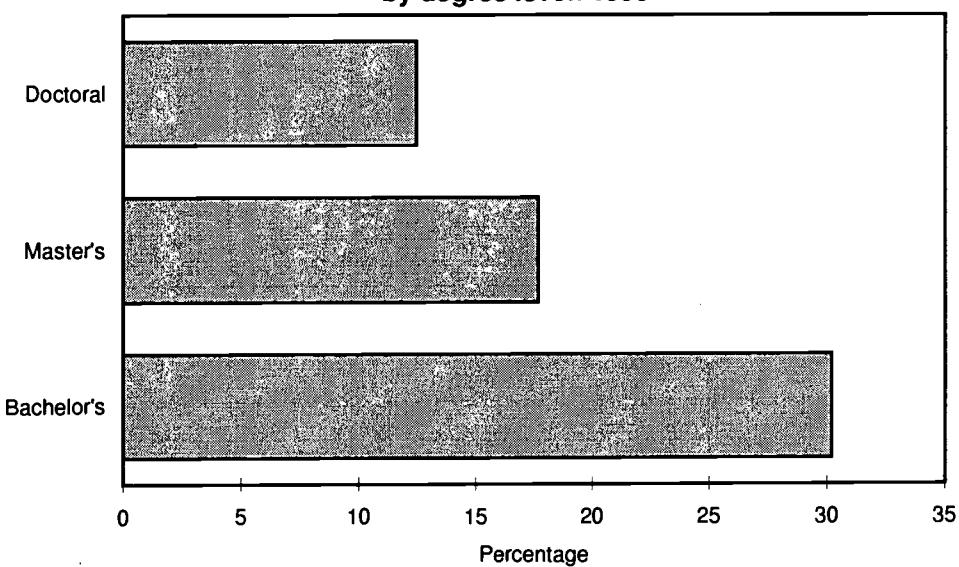
**SOURCES:** Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Survey, 1985, and IPEDS Completions Surveys, 1987-93

**Chart 13. Number of earned science and engineering doctoral degrees awarded to minority groups: 1985-93**



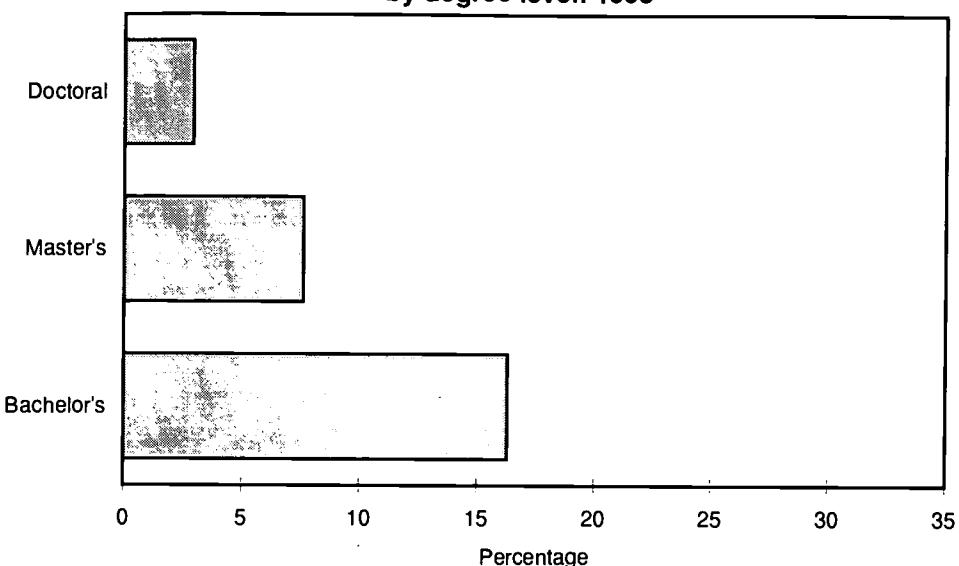
SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**Chart 14. Percentage of blacks earning science and engineering degrees from historically black colleges and universities, by degree level: 1993**



SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Survey, 1985, and IPEDS Completions Surveys, 1987-93; doctoral data from NSF/SRS Survey of Earned Doctorates

**Chart 15. Percentage of Hispanics earning science and engineering degrees from institutions in Puerto Rico, by degree level: 1993**



**SOURCES:** Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Survey, 1985, and IPEDS Completions Surveys, 1987-93; doctoral data from NSF/SRS Survey of Earned Doctorates

## **SECTION D.**

### **DETAILED STATISTICAL TABLES**

## LIST OF TABLES

<i>Table</i>	<i>Page</i>
1. Percentage distribution of earned bachelor's degrees in science and engineering, by citizenship, race/ethnicity, and sex of recipient: 1985-93, selected years .....	43
2. Percentage distribution of earned master's degrees in science and engineering, by citizenship, race/ethnicity, and sex of recipient: 1985-93, selected years .....	44
3. Percentage distribution of earned doctoral degrees in science and engineering, by citizenship, race/ethnicity, and sex of recipient: 1985-93, selected years .....	45
4. Number of earned bachelor's degrees, by field and by race/ethnicity of recipient: 1985-93, selected years .....	46
5. Number of earned bachelor's degrees, by field and by race/ethnicity of male recipients: 1985-93, selected years .....	50
6. Number of earned bachelor's degrees, by field and by race/ethnicity of female recipients: 1985-93, selected years .....	54
7. Number of earned master's degrees, by field and by race/ethnicity of recipient: 1985-93, selected years .....	58
8. Number of earned master's degrees, by field and by race/ethnicity of male recipients: 1985-93, selected years .....	62
9. Number of earned master's degrees, by field and by race/ethnicity of female recipients: 1985-93, selected years .....	66
10. Number of earned doctoral degrees, by field and by race/ethnicity of recipient: 1985-93, selected years .....	70
11. Number of earned doctoral degrees, by field and by race/ethnicity of male recipients: 1985-93, selected years .....	74
12. Number of earned doctoral degrees, by field and by race/ethnicity of female recipients: 1985-93, selected years .....	78
13. Number of earned bachelor's degrees conferred by historically black colleges and universities (HBCUs) to blacks, by field: 1985-93, selected years .....	82
14. Number of earned bachelor's degrees conferred by historically black colleges and universities (HBCUs) to black men, by field: 1985-93, selected years .....	83

## LIST OF TABLES—CONTINUED

<i>Table</i>	<i>Page</i>
15. Number of earned bachelor's degrees conferred by historically black colleges and universities (HBCUs) to black women, by field: 1985–93, selected years .....	84
16. Number of earned master's degrees conferred by historically black colleges and universities (HBCUs) to blacks, by field: 1985–93, selected years .....	85
17. Number of earned master's degrees conferred by historically black colleges and universities (HBCUs) to black men, by field: 1985–93, selected years .....	86
18. Number of earned master's degrees conferred by historically black colleges and universities (HBCUs) to black women, by field: 1985–93, selected years .....	87
19. Number of earned doctoral degrees conferred by historically black colleges and universities (HBCUs) to blacks, by field: 1985–93, selected years .....	88
20. Number of earned doctoral degrees conferred by historically black colleges and universities (HBCUs) to black men, by field: 1985–93, selected years .....	89
21. Number of earned doctoral degrees conferred by historically black colleges and universities (HBCUs) to black women, by field: 1985–93, selected years .....	90
22. Number of earned bachelor's degrees conferred by institutions in Puerto Rico to Hispanics, by field: 1985–93, selected years .....	91
23. Number of earned bachelor's degrees conferred by institutions in Puerto Rico to Hispanic men, by field: 1985–93, selected years .....	92
24. Number of earned bachelor's degrees conferred by institutions in Puerto Rico to Hispanic women, by field: 1985–93, selected years .....	93
25. Number of earned master's degrees conferred by institutions in Puerto Rico to Hispanics, by field: 1985–93, selected years .....	94
26. Number of earned master's degrees conferred by institutions in Puerto Rico to Hispanic men, by field: 1985–93, selected years .....	95
27. Number of earned master's degrees conferred by institutions in Puerto Rico to Hispanic women, by field: 1985–93, selected years .....	96

## LIST OF TABLES—CONTINUED

<i>Table</i>		<i>Page</i>
28. Number of earned doctoral degrees conferred by institutions in Puerto Rico to Hispanics, by field: 1985–93, selected years .....	97	
29. Number of earned doctoral degrees conferred by institutions in Puerto Rico to Hispanic men, by field: 1985–93, selected years .....	98	
30. Number of earned doctoral degrees conferred by institutions in Puerto Rico to Hispanic women, by field: 1985–93, selected years .....	99	
31. Number of earned bachelor's degrees awarded in engineering technologies, by race/ethnicity and sex of recipient: 1985–93 .....	100	
32. Number of earned master's degrees awarded in engineering technologies, by race/ethnicity and sex of recipient: 1985–93 .....	101	
33. Number of earned bachelor's degrees awarded in health fields, by race/ethnicity and sex of recipient: 1985–93 .....	102	
34. Number of earned master's degrees awarded in health fields, by race/ethnicity and sex of recipient: 1985–93 .....	103	
35. Number of earned doctoral degrees awarded in health fields, by race/ethnicity and sex of recipient: 1985–93 .....	104	
36. First-professional degrees awarded, by race/ethnicity and sex of recipient: 1985–93 .....	105	
37. First-professional degrees awarded in health fields, by race/ethnicity and sex of recipient: 1985–93 .....	106	
38. First-professional degrees awarded in non-health fields, by race/ethnicity and sex of recipient: 1985–93 .....	107	

**Table 1. Percentage distribution of earned bachelor's degrees in science and engineering,  
by citizenship, race/ethnicity, and sex of recipient:  
1985-93, selected years**

Page 1 of 1

Citizenship and race/ethnicity	1985	1987	1989	1990	1991	1992	1993
Total							
Total, all recipients .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total <sup>1</sup> .....	94.8	93.3	94.2	93.4	94.0	94.6	94.3
White, non-Hispanics .....	82.0	79.3	79.1	78.1	78.0	77.6	76.5
Asians .....	3.9	4.9	5.7	5.6	5.8	6.0	6.3
Underrepresented minorities, total .....	8.9	9.0	9.5	9.7	10.3	11.0	11.5
Black, non-Hispanics .....	5.0	5.0	5.2	5.3	5.6	6.0	6.3
Hispanics .....	3.5	3.6	3.9	4.0	4.3	4.6	4.7
American Indians or Alaskan Natives .....	.4	.4	.4	.4	.4	.4	.5
Nonresident aliens <sup>2</sup> .....	4.1	4.0	3.7	3.6	3.6	3.2	3.6
Unknown race/ethnicity or citizenship .....	1.1	2.7	2.1	3.0	2.4	2.1	2.1
Men							
Total, all recipients .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total <sup>1</sup> .....	93.7	92.5	93.5	92.6	93.1	93.8	93.5
White, non-Hispanics .....	82.4	79.9	79.8	78.9	78.8	78.5	77.5
Asians .....	3.9	5.0	5.8	5.8	5.9	6.3	6.6
Underrepresented minorities, total .....	7.3	7.5	7.9	8.0	8.5	9.0	9.4
Black, non-Hispanics .....	3.8	3.8	3.9	3.9	4.2	4.5	4.7
Hispanics .....	3.2	3.4	3.7	3.7	3.9	4.2	4.3
American Indians or Alaskan Natives .....	.4	.4	.3	.3	.3	.4	.4
Nonresident aliens <sup>2</sup> .....	5.1	4.9	4.6	4.5	4.5	4.0	4.4
Unknown race/ethnicity or citizenship .....	1.2	2.6	1.9	2.9	2.4	2.2	2.2
Women							
Total, all recipients .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total <sup>1</sup> .....	96.6	94.5	95.2	94.5	95.2	95.6	95.4
White, non-Hispanics .....	81.4	78.4	78.1	77.2	77.0	76.6	75.3
Asians .....	3.8	4.8	5.5	5.4	5.5	5.6	6.0
Underrepresented minorities, total .....	11.3	11.3	11.7	12.0	12.7	13.4	14.1
Black, non-Hispanics .....	6.9	6.9	7.0	7.1	7.4	7.8	8.2
Hispanics .....	4.0	4.0	4.3	4.4	4.8	5.2	5.3
American Indians or Alaskan Natives .....	.5	.4	.4	.4	.4	.5	.5
Nonresident aliens <sup>2</sup> .....	2.5	2.5	2.4	2.3	2.4	2.3	2.5
Unknown race/ethnicity or citizenship .....	.9	3.0	2.4	3.1	2.4	2.1	2.1

<sup>1</sup> Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

<sup>2</sup> Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

**NOTES:** Details may not sum to totals due to rounding.

Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

**SOURCES:** Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93

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**Table 2. Percentage distribution of earned master's degrees in science and engineering,  
by citizenship, race/ethnicity, and sex of recipient:  
1985-93, selected years**

Page 1 of 1

Citizenship and race/ethnicity	1985	1987	1989	1990	1991	1992	1993
<b>Total</b>							
Total, all recipients .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total <sup>1</sup> .....	78.4	75.4	73.2	72.2	72.6	71.9	70.9
White, non-Hispanics .....	68.0	64.9	62.5	61.5	61.1	59.9	58.9
Asians .....	5.1	5.2	5.8	5.6	5.9	6.3	6.0
Underrepresented minorities, total .....	5.4	5.3	4.9	5.0	5.5	5.7	6.0
Black, non-Hispanics .....	2.7	2.7	2.3	2.6	2.9	3.1	3.1
Hispanics .....	2.3	2.4	2.3	2.2	2.4	2.4	2.6
American Indians or Alaskan Natives .....	.4	.2	.3	.3	.3	.3	.3
Nonresident aliens <sup>2</sup> .....	19.3	19.5	21.5	22.6	23.4	23.6	24.7
Unknown race/ethnicity or citizenship .....	2.3	5.1	5.3	5.2	4.0	4.5	4.4
<b>Men</b>							
Total, all recipients .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total <sup>1</sup> .....	74.5	71.9	69.2	68.3	68.5	67.8	66.6
White, non-Hispanics .....	64.4	61.7	58.9	58.3	57.9	56.5	55.5
Asians .....	5.5	5.6	6.2	5.8	6.2	6.6	6.1
Underrepresented minorities, total .....	4.6	4.7	4.2	4.1	4.5	4.7	5.0
Black, non-Hispanics .....	2.2	2.2	1.8	2.0	2.2	2.3	2.4
Hispanics .....	2.1	2.3	2.0	2.0	2.1	2.1	2.4
American Indians or Alaskan Natives .....	.3	.2	.3	.2	.2	.2	.2
Nonresident aliens <sup>2</sup> .....	22.9	23.1	25.2	26.2	27.4	27.5	28.9
Unknown race/ethnicity or citizenship .....	2.7	5.0	5.5	5.5	4.1	4.7	4.5
<b>Women</b>							
Total, all recipients .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total <sup>1</sup> .....	87.4	82.8	81.6	80.1	80.3	79.7	78.9
White, non-Hispanics .....	76.1	72.0	70.0	68.1	67.3	66.4	65.3
Asians .....	4.1	4.2	5.1	5.3	5.4	5.6	5.7
Underrepresented minorities, total .....	7.2	6.5	6.4	6.8	7.6	7.6	8.0
Black, non-Hispanics .....	3.9	3.8	3.4	3.8	4.2	4.5	4.6
Hispanics .....	2.9	2.5	2.7	2.6	3.0	2.8	3.0
American Indians or Alaskan Natives .....	.4	.2	.3	.4	.4	.3	.4
Nonresident aliens <sup>2</sup> .....	11.3	11.9	13.7	15.3	15.8	16.3	16.9
Unknown race/ethnicity or citizenship .....	1.4	5.3	4.7	4.6	3.9	4.1	4.2

<sup>1</sup> Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

<sup>2</sup> Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

**NOTES:** Details may not sum to totals due to rounding.

Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

**SOURCES:** Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93

**Table 3. Percentage distribution of earned doctoral degrees in science and engineering,  
by citizenship, race/ethnicity, and sex of recipient:  
1985-93, selected years**

Page 1 of 1

Citizenship and race/ethnicity	1985	1987	1989	1990	1991	1992	1993
Total							
Total, all recipients .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total <sup>1</sup> .....	72.5	69.1	65.9	66.3	64.9	63.6	64.8
White, non-Hispanics .....	64.3	60.6	57.6	57.8	55.6	54.1	54.1
Asians .....	4.5	4.7	4.6	4.6	5.1	5.5	6.5
Underrepresented minorities, total .....	3.8	3.7	3.7	3.9	4.2	4.0	4.2
Black, non-Hispanics .....	2.0	1.6	1.7	1.7	1.9	1.6	1.9
Hispanics .....	1.6	1.8	1.8	2.1	2.1	2.1	2.1
American Indians or Alaskan Natives .....	.2	.3	.2	.2	.2	.3	.2
Nonresident aliens <sup>2</sup> .....	21.4	22.5	24.8	28.7	31.8	32.8	31.9
Unknown race/ethnicity or citizenship .....	6.1	8.5	9.3	5.0	3.3	3.6	3.4
Men							
Total, all recipients .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total <sup>1</sup> .....	68.5	64.3	60.6	60.8	58.8	57.8	58.8
White, non-Hispanics .....	60.7	56.4	52.7	52.7	50.3	49.1	49.1
Asians .....	4.7	4.8	4.8	4.8	4.9	5.3	6.2
Underrepresented minorities, total .....	3.1	3.0	3.1	3.3	3.6	3.4	3.4
Black, non-Hispanics .....	1.7	1.3	1.4	1.4	1.6	1.4	1.5
Hispanics .....	1.3	1.5	1.5	1.8	1.8	1.8	1.8
American Indians or Alaskan Natives .....	.1	.2	.2	.2	.2	.2	.1
Nonresident aliens <sup>2</sup> .....	25.2	26.8	29.5	33.9	37.5	38.3	37.4
Unknown race/ethnicity or citizenship .....	6.2	8.9	9.9	5.3	3.6	3.8	3.8
Women							
Total, all recipients .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total <sup>1</sup> .....	84.0	82.1	79.6	80.6	79.8	78.0	78.7
White, non-Hispanics .....	74.5	72.2	70.3	71.1	68.5	66.5	65.7
Asians .....	3.9	4.4	4.0	4.1	5.5	5.8	7.0
Underrepresented minorities, total .....	5.6	5.5	5.4	5.4	5.7	5.7	5.9
Black, non-Hispanics .....	2.8	2.5	2.5	2.3	2.8	2.3	2.7
Hispanics .....	2.3	2.7	2.5	2.8	2.7	3.0	3.0
American Indians or Alaskan Natives .....	.4	.4	.3	.3	.3	.4	.2
Nonresident aliens <sup>2</sup> .....	10.3	10.6	12.8	15.4	17.7	19.1	19.0
Unknown race/ethnicity or citizenship .....	5.7	7.3	7.6	4.0	2.5	2.9	2.3

1 Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2 Nonresident aliens include foreign citizens on temporary visas only.

**NOTE:** Details may not sum to totals due to rounding.

**SOURCE:** National Science Foundation/SRS, Survey of Earned Doctorates

**Table 4. Number of earned bachelor's degrees, by field and by race/ethnicity of recipient: 1985-93, selected years**

Page 1 of 4

Field	1985	1987	1989	1990	1991	1992	1993
Total, all recipients							
Total science and engineering .....	342,970	343,070	337,431	345,793	356,785	376,933	388,435
Engineering .....	77,571	74,423	66,947	64,703	62,186	61,898	62,670
Sciences .....	265,399	268,647	270,484	281,090	294,599	315,035	325,765
Natural sciences .....	130,058	125,371	109,350	105,234	105,595	111,108	116,742
Physical science <sup>1</sup> .....	23,847	20,155	17,329	16,203	16,407	17,076	17,691
Mathematical science .....	15,267	16,515	15,314	14,674	14,784	14,851	14,870
Computer science .....	39,121	39,927	30,963	27,695	25,410	24,854	24,477
Biological science .....	39,405	39,047	36,949	38,040	40,351	43,835	47,877
Agricultural science .....	12,418	9,727	8,795	8,622	8,643	10,492	11,827
Social sciences .....	135,341	143,276	161,134	175,856	189,004	203,927	209,023
Social science .....	95,104	100,081	112,180	121,838	130,111	139,884	141,772
Psychology .....	40,237	43,195	48,954	54,018	58,893	64,043	67,251
Non-S&E <sup>2</sup> .....	647,907	660,462	692,740	716,358	751,212	773,139	790,843
Grand total .....	990,877	1,003,532	1,030,171	1,062,151	1,107,997	1,150,072	1,179,278
White, non-Hispanics							
Total science and engineering .....	281,394	272,090	266,862	270,225	278,190	292,614	297,171
Engineering .....	60,992	56,491	50,081	47,494	45,162	45,026	44,853
Sciences .....	220,402	215,599	216,781	222,731	233,028	247,588	252,318
Natural sciences .....	107,076	98,344	84,578	80,210	80,111	84,133	87,401
Physical science <sup>1</sup> .....	20,541	16,653	14,238	13,055	13,145	13,678	13,941
Mathematical science .....	12,163	13,265	12,287	11,765	11,649	11,723	11,669
Computer science .....	31,321	29,181	21,711	18,918	17,349	16,844	16,155
Biological science .....	31,818	30,549	28,404	28,814	30,264	32,506	35,080
Agricultural science .....	11,233	8,696	7,938	7,658	7,704	9,382	10,556
Social sciences .....	113,326	117,255	132,203	142,521	152,917	163,455	164,917
Social science .....	79,367	81,494	91,697	98,385	104,783	111,389	111,154
Psychology .....	33,959	35,761	40,506	44,136	48,134	52,066	53,763
Non-S&E <sup>2</sup> .....	544,962	547,387	573,464	586,461	614,173	628,839	634,432
Grand total .....	826,356	819,477	840,326	856,686	892,363	921,453	931,603
Asians							
Total science and engineering .....	13,323	16,934	19,138	19,437	20,552	22,635	24,504
Engineering .....	4,482	5,590	6,075	6,012	6,220	6,265	6,407
Sciences .....	8,841	11,344	13,063	13,425	14,332	16,370	18,097
Natural sciences .....	5,809	7,130	7,260	7,326	7,595	8,496	9,524
Physical science <sup>1</sup> .....	763	894	922	937	983	1,001	1,098
Mathematical science .....	885	1,034	1,019	874	915	857	915
Computer science .....	2,044	2,455	2,268	2,144	2,010	2,082	2,245
Biological science .....	1,952	2,565	2,907	3,245	3,559	4,402	5,103
Agricultural science .....	165	182	144	126	128	154	163
Social sciences .....	3,032	4,214	5,803	6,099	6,737	7,874	8,573
Social science .....	2,187	3,060	4,228	4,469	4,852	5,724	6,035
Psychology .....	845	1,154	1,575	1,630	1,885	2,150	2,538
Non-S&E <sup>2</sup> .....	12,239	14,987	18,435	18,590	21,173	23,981	26,083
Grand total .....	25,562	31,921	37,573	38,027	41,725	46,616	50,587

See explanatory information and SOURCES at end of table.

**Table 4. Number of earned bachelor's degrees, by field and by race/ethnicity of recipient: 1985-93, selected years**

Page 2 of 4

Field	1985	1987	1989	1990	1991	1992	1993
Underrepresented minorities, total							
Total science and engineering .....	30,455	30,939	31,950	33,419	36,682	41,383	44,682
Engineering .....	4,435	5,079	4,805	4,729	4,953	5,277	5,714
Sciences .....	26,020	25,860	27,145	28,690	31,729	36,106	38,968
Natural sciences .....	10,879	11,607	10,830	10,530	10,960	11,722	12,510
Physical science <sup>1</sup> .....	1,588	1,480	1,322	1,245	1,355	1,425	1,528
Mathematical science .....	1,164	1,207	1,218	1,178	1,334	1,432	1,490
Computer science .....	3,327	4,307	3,742	3,416	3,292	3,342	3,390
Biological science .....	4,277	4,180	4,151	4,243	4,551	5,043	5,602
Agricultural science .....	523	433	397	448	428	480	500
Social sciences .....	15,141	14,253	16,315	18,160	20,769	24,384	26,458
Social science .....	10,539	9,920	11,212	12,394	14,100	16,647	17,918
Psychology .....	4,602	4,333	5,103	5,766	6,669	7,737	8,540
Non-S&E <sup>2</sup> .....	67,745	66,226	70,215	73,958	81,840	88,065	95,404
Grand total .....	98,200	97,165	102,165	107,377	118,522	129,448	140,086
Black, non-Hispanics							
Total science and engineering .....	17,040	17,230	17,385	18,230	19,987	22,431	24,421
Engineering .....	2,039	2,315	2,067	2,072	2,229	2,362	2,577
Sciences .....	15,001	14,915	15,318	16,158	17,758	20,069	21,844
Natural sciences .....	6,009	6,524	6,005	5,782	5,834	6,401	6,972
Physical science <sup>1</sup> .....	830	823	697	650	753	816	836
Mathematical science .....	770	834	792	720	811	904	965
Computer science .....	2,143	2,820	2,457	2,247	1,997	2,090	2,213
Biological science .....	2,047	1,890	1,916	1,994	2,111	2,385	2,739
Agricultural science .....	219	157	143	171	162	206	219
Social sciences .....	8,992	8,391	9,313	10,376	11,924	13,668	14,872
Social science .....	6,325	5,940	6,570	7,226	8,236	9,489	10,254
Psychology .....	2,667	2,451	2,743	3,150	3,688	4,179	4,618
Non-S&E <sup>2</sup> .....	40,523	37,873	39,452	41,071	45,022	48,880	52,246
Grand total .....	57,563	55,103	56,837	59,301	65,009	71,311	76,667
Hispanics							
Total science and engineering .....	12,031	12,419	13,327	13,918	15,351	17,391	18,442
Engineering .....	2,187	2,554	2,561	2,511	2,566	2,733	2,961
Sciences .....	9,844	9,865	10,766	11,407	12,785	14,658	15,481
Natural sciences .....	4,359	4,660	4,417	4,357	4,705	4,892	5,034
Physical science <sup>1</sup> .....	660	585	563	522	533	546	599
Mathematical science .....	335	321	373	413	480	482	470
Computer science .....	1,045	1,375	1,195	1,085	1,215	1,173	1,096
Biological science .....	2,069	2,146	2,090	2,119	2,264	2,477	2,652
Agricultural science .....	250	233	196	218	213	214	217
Social sciences .....	5,485	5,205	6,349	7,050	8,080	9,766	10,447
Social science .....	3,751	3,503	4,197	4,645	5,334	6,519	6,860
Psychology .....	1,734	1,702	2,152	2,405	2,746	3,247	3,587
Non-S&E <sup>2</sup> .....	24,360	25,777	28,034	29,946	33,676	35,616	39,403
Grand total .....	36,391	38,196	41,361	43,864	49,027	53,007	57,845

See explanatory information and SOURCES at end of table.

**Table 4. Number of earned bachelor's degrees, by field and by race/ethnicity of recipient: 1985-93, selected years**

Page 3 of 4

Field	1985	1987	1989	1990	1991	1992	1993
American Indians or Alaskan Natives							
Total science and engineering .....	1,384	1,290	1,238	1,271	1,344	1,561	1,819
Engineering .....	209	210	177	146	158	182	176
Sciences .....	1,175	1,080	1,061	1,125	1,186	1,379	1,643
Natural sciences .....	511	423	408	391	421	429	504
Physical science <sup>1</sup> .....	98	72	62	73	69	63	93
Mathematical science .....	59	52	53	45	43	46	55
Computer science .....	139	112	90	84	80	79	81
Biological science .....	161	144	145	130	176	181	211
Agricultural science .....	54	43	58	59	53	60	64
Social sciences .....	664	657	653	734	765	950	1,139
Social science .....	463	477	445	523	530	639	804
Psychology .....	201	180	208	211	235	311	335
Non-S&E <sup>2</sup> .....	2,862	2,576	2,729	2,941	3,142	3,569	3,755
Grand total .....	4,246	3,866	3,967	4,212	4,486	5,130	5,574
U.S. citizens and permanent residents, total							
Total science and engineering .....	325,172	319,963	317,950	323,081	335,424	356,632	366,357
Engineering .....	69,909	67,160	60,961	58,235	56,335	56,568	56,974
Sciences .....	255,263	252,803	256,989	264,846	279,089	300,064	309,383
Natural sciences .....	123,764	117,081	102,668	98,066	98,666	104,351	109,435
Physical science <sup>1</sup> .....	22,892	19,027	16,482	15,237	15,483	16,104	16,567
Mathematical science .....	14,212	15,506	14,524	13,817	13,898	14,012	14,074
Computer science .....	36,692	35,943	27,721	24,478	22,651	22,268	21,790
Biological science .....	38,047	37,294	35,462	36,302	38,374	41,951	45,785
Agricultural science .....	11,921	9,311	8,479	8,232	8,260	10,016	11,219
Social sciences .....	131,499	135,722	154,321	166,780	180,423	195,713	199,948
Social science .....	92,093	94,474	107,137	115,248	123,735	133,760	135,107
Psychology .....	39,406	41,248	47,184	51,532	56,688	61,953	64,841
Non-S&E <sup>2</sup> .....	624,946	628,600	662,114	679,009	717,186	740,885	755,919
Grand total .....	950,118	948,563	980,064	1,002,090	1,052,610	1,097,517	1,122,276
Nonresident aliens <sup>3</sup>							
Total science and engineering .....	14,071	13,677	12,323	12,318	12,724	12,238	13,802
Engineering .....	6,190	5,889	5,072	4,917	4,582	4,223	4,505
Sciences .....	7,881	7,788	7,251	7,401	8,142	8,015	9,297
Natural sciences .....	5,011	5,019	4,422	4,326	4,556	4,369	5,086
Physical science <sup>1</sup> .....	780	635	605	595	608	607	764
Mathematical science .....	763	655	543	524	578	592	552
Computer science .....	2,116	2,578	2,135	2,066	2,037	1,974	2,204
Biological science .....	915	862	873	867	1,063	993	1,217
Agricultural science .....	437	289	266	274	270	203	349
Social sciences .....	2,870	2,769	2,829	3,075	3,586	3,646	4,211
Social science .....	2,327	2,275	2,318	2,550	2,895	2,982	3,381
Psychology .....	543	494	511	525	691	664	830
Non-S&E <sup>2</sup> .....	15,187	14,915	14,134	14,235	16,933	16,309	18,569
Grand total .....	29,258	28,592	26,457	26,553	29,657	28,547	32,371

See explanatory information and SOURCES at end of table.

**Table 4. Number of earned bachelor's degrees, by field and by race/ethnicity of recipient: 1985-93, selected years**

Page 4 of 4

Field	1985	1987	1989	1990	1991	1992	1993
Unknown race/ethnicity or citizenship							
Total science and engineering .....	3,727	9,430	7,158	10,394	8,637	8,063	8,276
Engineering .....	1,472	1,374	914	1,551	1,269	1,107	1,191
Sciences .....	2,255	8,056	6,244	8,843	7,368	6,956	7,085
Natural sciences .....	1,283	3,271	2,260	2,842	2,373	2,388	2,221
Physical science <sup>1</sup> .....	175	493	242	371	316	365	360
Mathematical science .....	292	354	247	333	308	247	244
Computer science .....	313	1,406	1,107	1,151	722	612	483
Biological science .....	443	891	614	871	914	891	875
Agricultural science .....	60	127	50	116	113	273	259
Social sciences .....	972	4,785	3,984	6,001	4,995	4,568	4,864
Social science .....	684	3,332	2,725	4,040	3,481	3,142	3,284
Psychology .....	288	1,453	1,259	1,961	1,514	1,426	1,580
Non-S&E <sup>2</sup> .....	7,774	16,947	16,492	23,114	17,093	15,945	16,355
Grand total .....	11,501	26,377	23,650	33,508	25,730	24,008	24,631

1 In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

2 Non-S&E refers to non-science and non-engineering.

3 Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

**NOTES:** Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

**SOURCES:** Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93

**Table 5. Number of earned bachelor's degrees, by field and by race/ethnicity of male recipients: 1985-93, selected years**

Page 1 of 4

Field	1985	1987	1989	1990	1991	1992	1993
Total, all recipients							
Total science and engineering .....	210,347	207,455	198,728	199,916	201,499	209,270	214,388
Engineering .....	66,326	63,020	56,759	54,730	52,522	52,270	52,696
Sciences .....	144,021	144,435	141,969	145,186	148,977	157,000	161,692
Natural sciences .....	78,568	75,630	65,875	62,518	62,091	64,678	67,855
Physical science <sup>1</sup> .....	17,149	14,422	12,157	11,109	11,199	11,466	11,877
Mathematical science .....	8,231	8,833	8,264	7,863	7,804	7,923	7,859
Computer science .....	24,690	26,038	21,418	19,321	17,896	17,670	17,565
Biological science .....	20,435	20,039	18,295	18,631	19,715	21,107	23,111
Agricultural science .....	8,063	6,298	5,741	5,594	5,477	6,512	7,443
Social sciences .....	65,453	68,805	76,094	82,668	86,886	92,322	93,837
Social science .....	52,638	55,406	61,803	67,269	70,731	75,185	75,808
Psychology .....	12,815	13,399	14,291	15,399	16,155	17,137	18,029
Non-S&E <sup>2</sup> .....	276,313	277,548	288,838	295,951	307,453	316,125	323,148
Grand total .....	486,660	485,003	487,566	495,867	508,952	525,395	537,536
White, non-Hispanics							
Total science and engineering .....	173,396	165,825	158,590	157,675	158,687	164,220	166,063
Engineering .....	52,167	48,015	42,779	40,533	38,692	38,513	38,244
Sciences .....	121,229	117,810	115,811	117,142	119,995	125,707	127,819
Natural sciences .....	65,695	60,575	52,132	48,848	48,304	50,126	52,048
Physical science <sup>1</sup> .....	14,980	12,139	10,173	9,179	9,203	9,430	9,614
Mathematical science .....	6,509	7,050	6,598	6,253	6,119	6,255	6,131
Computer science .....	20,188	19,793	15,799	13,974	12,916	12,571	12,329
Biological science .....	16,809	15,985	14,377	14,488	15,174	16,030	17,293
Agricultural science .....	7,209	5,608	5,185	4,954	4,892	5,840	6,681
Social sciences .....	55,534	57,235	63,679	68,294	71,691	75,581	75,771
Social science .....	44,665	46,066	51,766	55,662	58,414	61,574	61,269
Psychology .....	10,869	11,169	11,913	12,632	13,277	14,007	14,502
Non-S&E <sup>2</sup> .....	231,800	230,712	239,962	243,349	252,058	258,297	261,177
Grand total .....	405,196	396,537	398,552	401,024	410,745	422,517	427,240
Asians							
Total science and engineering .....	8,229	10,445	11,578	11,528	11,942	13,198	14,132
Engineering .....	3,641	4,522	4,936	4,827	4,969	5,067	5,130
Sciences .....	4,588	5,923	6,642	6,701	6,973	8,131	9,002
Natural sciences .....	3,245	4,029	4,073	4,054	4,149	4,783	5,380
Physical science <sup>1</sup> .....	504	598	626	592	606	615	675
Mathematical science .....	474	532	527	491	482	486	502
Computer science .....	1,158	1,490	1,420	1,335	1,268	1,373	1,492
Biological science .....	1,024	1,314	1,442	1,573	1,736	2,230	2,633
Agricultural science .....	85	95	58	63	57	79	78
Social sciences .....	1,343	1,894	2,569	2,647	2,824	3,348	3,622
Social science .....	1,058	1,489	2,065	2,156	2,260	2,728	2,884
Psychology .....	285	405	504	491	564	620	738
Non-S&E <sup>2</sup> .....	5,404	6,459	7,625	7,569	8,831	9,992	10,687
Grand total .....	13,633	16,904	19,203	19,097	20,773	23,190	24,819

See explanatory information and SOURCES at end of table.

**Table 5. Number of earned bachelor's degrees, by field and by race/ethnicity of male recipients: 1985-93, selected years**

Page 2 of 4

Field	1985	1987	1989	1990	1991	1992	1993
Underrepresented minorities, total							
Total science and engineering .....	15,459	15,598	15,672	15,954	17,027	18,890	20,160
Engineering .....	3,511	3,886	3,638	3,574	3,654	3,952	4,261
Sciences .....	11,948	11,712	12,034	12,380	13,373	14,938	15,899
Natural sciences .....	5,515	5,699	5,411	5,043	5,226	5,450	5,766
Physical science <sup>1</sup> .....	963	855	771	655	755	745	792
Mathematical science .....	601	627	636	614	657	675	744
Computer science .....	1,694	2,111	2,013	1,797	1,758	1,864	1,802
Biological science .....	1,892	1,818	1,734	1,685	1,799	1,885	2,130
Agricultural science .....	365	288	257	292	257	281	298
Social sciences .....	6,433	6,013	6,623	7,337	8,147	9,488	10,133
Social science .....	5,065	4,776	5,286	5,788	6,442	7,590	8,013
Psychology .....	1,368	1,237	1,337	1,549	1,705	1,898	2,120
Non-S&E <sup>2</sup> .....	25,728	24,756	25,978	27,093	29,887	31,805	34,440
Grand total .....	41,187	40,354	41,650	43,047	46,914	50,695	54,600
Black, non-Hispanics							
Total science and engineering .....	7,926	7,886	7,685	7,830	8,448	9,375	10,099
Engineering .....	1,479	1,606	1,397	1,416	1,484	1,614	1,764
Sciences .....	6,447	6,280	6,288	6,414	6,964	7,761	8,335
Natural sciences .....	2,833	2,939	2,732	2,476	2,538	2,709	2,872
Physical science <sup>1</sup> .....	457	433	365	292	391	381	370
Mathematical science .....	376	399	374	342	380	374	444
Computer science .....	1,036	1,284	1,205	1,074	971	1,092	1,049
Biological science .....	806	723	700	658	696	749	883
Agricultural science .....	158	100	88	110	100	113	126
Social sciences .....	3,614	3,341	3,556	3,938	4,426	5,052	5,463
Social science .....	2,863	2,680	2,911	3,144	3,547	4,070	4,364
Psychology .....	751	661	645	794	879	982	1,099
Non-S&E <sup>2</sup> .....	15,114	14,056	14,228	14,760	15,790	17,143	18,275
Grand total .....	23,040	21,942	21,913	22,590	24,238	26,518	28,374
Hispanics							
Total science and engineering .....	6,751	6,974	7,318	7,434	7,888	8,730	9,160
Engineering .....	1,863	2,100	2,100	2,035	2,039	2,187	2,355
Sciences .....	4,888	4,874	5,218	5,399	5,849	6,543	6,805
Natural sciences .....	2,380	2,516	2,432	2,328	2,458	2,497	2,608
Physical science <sup>1</sup> .....	441	377	362	311	318	326	361
Mathematical science .....	189	196	224	249	259	279	273
Computer science .....	582	766	750	669	738	724	700
Biological science .....	997	1,018	965	955	1,019	1,043	1,144
Agricultural science .....	171	159	131	144	124	125	130
Social sciences .....	2,508	2,358	2,786	3,071	3,391	4,046	4,197
Social science .....	1,966	1,845	2,153	2,384	2,634	3,220	3,269
Psychology .....	542	513	633	687	757	826	928
Non-S&E <sup>2</sup> .....	9,398	9,664	10,684	11,249	12,893	13,296	14,665
Grand total .....	16,149	16,638	18,002	18,683	20,781	22,026	23,825

See explanatory information and SOURCES at end of table.

**Table 5. Number of earned bachelor's degrees, by field and by race/ethnicity of male recipients: 1985-93, selected years**

Page 3 of 4

Field	1985	1987	1989	1990	1991	1992	1993
American Indians or Alaskan Natives							
Total science and engineering .....	782	738	669	690	691	785	901
Engineering .....	169	180	141	123	131	151	142
Sciences .....	613	558	528	567	560	634	759
Natural sciences .....	302	244	247	239	230	244	286
Physical science <sup>1</sup> .....	65	45	44	52	46	38	61
Mathematical science .....	36	32	38	23	18	22	27
Computer science .....	76	61	58	54	49	48	53
Biological science .....	89	77	69	72	84	93	103
Agricultural science .....	36	29	38	38	33	43	42
Social sciences .....	311	314	281	328	330	390	473
Social science .....	236	251	222	260	261	300	380
Psychology .....	75	63	59	68	69	90	93
Non-S&E <sup>2</sup> .....	1,216	1,036	1,066	1,084	1,204	1,366	1,500
Grand total .....	1,998	1,774	1,735	1,774	1,895	2,151	2,401
U.S. citizens and permanent residents, total							
Total science and engineering .....	197,084	191,868	185,840	185,157	187,656	196,308	200,355
Engineering .....	59,319	56,423	51,353	48,934	47,315	47,532	47,635
Sciences .....	137,765	135,445	134,487	136,223	140,341	148,776	152,720
Natural sciences .....	74,455	70,303	61,616	57,945	57,679	60,359	63,194
Physical science <sup>1</sup> .....	16,447	13,592	11,570	10,426	10,564	10,790	11,081
Mathematical science .....	7,584	8,209	7,761	7,358	7,258	7,416	7,377
Computer science .....	23,040	23,394	19,232	17,106	15,942	15,808	15,623
Biological science .....	19,725	19,117	17,553	17,746	18,709	20,145	22,056
Agricultural science .....	7,659	5,991	5,500	5,309	5,206	6,200	7,057
Social sciences .....	63,310	65,142	72,871	78,278	82,662	88,417	89,526
Social science .....	50,788	52,331	59,117	63,606	67,116	71,892	72,166
Psychology .....	12,522	12,811	13,754	14,672	15,546	16,525	17,360
Non-S&E <sup>2</sup> .....	262,932	261,927	273,565	278,011	290,776	300,094	306,304
Grand total .....	460,016	453,795	459,405	463,168	478,432	496,402	506,659
Nonresident aliens <sup>3</sup>							
Total science and engineering .....	10,733	10,266	9,043	8,936	8,983	8,341	9,394
Engineering .....	5,708	5,368	4,599	4,427	4,112	3,752	4,041
Sciences .....	5,025	4,898	4,444	4,509	4,871	4,589	5,353
Natural sciences .....	3,371	3,320	2,902	2,856	2,995	2,806	3,271
Physical science <sup>1</sup> .....	580	461	406	415	411	417	525
Mathematical science .....	476	421	347	324	374	358	345
Computer science .....	1,444	1,776	1,517	1,472	1,463	1,419	1,601
Biological science .....	504	433	426	431	544	479	569
Agricultural science .....	367	229	206	214	203	133	231
Social sciences .....	1,654	1,578	1,542	1,653	1,876	1,783	2,082
Social science .....	1,459	1,419	1,372	1,493	1,698	1,608	1,862
Psychology .....	195	159	170	160	178	175	220
Non-S&E <sup>2</sup> .....	9,378	8,872	8,074	7,972	9,244	8,765	9,658
Grand total .....	20,111	19,138	17,117	16,908	18,227	17,106	19,052

See explanatory information and SOURCES at end of table.

**Table 5. Number of earned bachelor's degrees, by field and by race/ethnicity of male recipients: 1985-93, selected years**

Page 4 of 4

Field	1985	1987	1989	1990	1991	1992	1993
Unknown race/ethnicity or citizenship							
Total science and engineering .....	2,530	5,321	3,845	5,823	4,860	4,621	4,639
Engineering .....	1,299	1,229	807	1,369	1,095	986	1,020
Sciences .....	1,231	4,092	3,038	4,454	3,765	3,635	3,619
Natural sciences .....	742	2,007	1,357	1,717	1,417	1,513	1,390
Physical science <sup>1</sup> .....	122	369	181	268	224	259	271
Mathematical science .....	171	203	156	181	172	149	137
Computer science .....	206	868	669	743	491	443	341
Biological science .....	206	489	316	454	462	483	486
Agricultural science .....	37	78	35	71	68	179	155
Social sciences .....	489	2,085	1,681	2,737	2,348	2,122	2,229
Social science .....	391	1,656	1,314	2,170	1,917	1,685	1,780
Psychology .....	98	429	367	567	431	437	449
Non-S&E <sup>2</sup> .....	4,003	6,749	7,199	9,968	7,433	7,266	7,186
Grand total .....	6,533	12,070	11,044	15,791	12,293	11,887	11,825

1 In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

2 Non-S&E refers to non-science and non-engineering.

3 Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

**NOTES:** Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

**SOURCES:** Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93

**Table 6. Number of earned bachelor's degrees, by field and by race/ethnicity of female recipients: 1985-93, selected years**

Page 1 of 4

Field	1985	1987	1989	1990	1991	1992	1993
Total, all recipients							
Total science and engineering .....	132,623	135,615	138,703	145,877	155,286	167,663	174,047
Engineering .....	11,245	11,403	10,188	9,973	9,664	9,628	9,974
Sciences .....	121,378	124,212	128,515	135,904	145,622	158,035	164,073
Natural sciences .....	51,490	49,741	43,475	42,716	43,504	46,430	48,887
Physical science <sup>1</sup> .....	6,698	5,733	5,172	5,094	5,208	5,610	5,814
Mathematical science .....	7,036	7,682	7,050	6,811	6,980	6,928	7,011
Computer science .....	14,431	13,889	9,545	8,374	7,514	7,184	6,912
Biological science .....	18,970	19,008	18,654	19,409	20,636	22,728	24,766
Agricultural science .....	4,355	3,429	3,054	3,028	3,166	3,980	4,384
Social sciences .....	69,888	74,471	85,040	93,188	102,118	111,605	115,186
Social science .....	42,466	44,675	50,377	54,569	59,380	64,699	65,964
Psychology .....	27,422	29,796	34,663	38,619	42,738	46,906	49,222
Non-S&E <sup>2</sup> .....	371,594	382,914	403,902	420,407	443,759	457,014	467,695
Grand total .....	504,217	518,529	542,605	566,284	599,045	624,677	641,742
White, non-Hispanics							
Total science and engineering .....	107,998	106,265	108,272	112,550	119,503	128,394	131,108
Engineering .....	8,825	8,476	7,302	6,961	6,470	6,513	6,609
Sciences .....	99,173	97,789	100,970	105,589	113,033	121,881	124,499
Natural sciences .....	41,381	37,769	32,446	31,362	31,807	34,007	35,353
Physical science <sup>1</sup> .....	5,561	4,514	4,065	3,876	3,942	4,248	4,327
Mathematical science .....	5,654	6,215	5,689	5,512	5,530	5,468	5,538
Computer science .....	11,133	9,388	5,912	4,944	4,433	4,273	3,826
Biological science .....	15,009	14,564	14,027	14,326	15,090	16,476	17,787
Agricultural science .....	4,024	3,088	2,753	2,704	2,812	3,542	3,875
Social sciences .....	57,792	60,020	68,524	74,227	81,226	87,874	89,146
Social science .....	34,702	35,428	39,931	42,723	46,369	49,815	49,885
Psychology .....	23,090	24,592	28,593	31,504	34,857	38,059	39,261
Non-S&E <sup>2</sup> .....	313,162	316,675	333,502	343,112	362,115	370,542	373,255
Grand total .....	421,160	422,940	441,774	455,662	481,618	498,936	504,363
Asians							
Total science and engineering .....	5,094	6,489	7,560	7,909	8,610	9,437	10,372
Engineering .....	841	1,068	1,139	1,185	1,251	1,198	1,277
Sciences .....	4,253	5,421	6,421	6,724	7,359	8,239	9,095
Natural sciences .....	2,564	3,101	3,187	3,272	3,446	3,713	4,144
Physical science <sup>1</sup> .....	259	296	296	345	377	386	423
Mathematical science .....	411	502	492	383	433	371	413
Computer science .....	886	965	848	809	742	709	753
Biological science .....	928	1,251	1,465	1,672	1,823	2,172	2,470
Agricultural science .....	80	87	86	63	71	75	85
Social sciences .....	1,689	2,320	3,234	3,452	3,913	4,526	4,951
Social science .....	1,129	1,571	2,163	2,313	2,592	2,996	3,151
Psychology .....	560	749	1,071	1,139	1,321	1,530	1,800
Non-S&E <sup>2</sup> .....	6,835	8,528	10,810	11,021	12,342	13,989	15,396
Grand total .....	11,929	15,017	18,370	18,930	20,952	23,426	25,768

See explanatory information and SOURCES at end of table.

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**Table 6. Number of earned bachelor's degrees, by field and by race/ethnicity of female recipients: 1985-93, selected years**

Page 2 of 4

Field	1985	1987	1989	1990	1991	1992	1993
Underrepresented minorities, total							
Total science and engineering .....	14,996	15,341	16,278	17,465	19,655	22,493	24,522
Engineering .....	924	1,193	1,167	1,155	1,299	1,325	1,453
Sciences .....	14,072	14,148	15,111	16,310	18,356	21,168	23,069
Natural sciences .....	5,364	5,908	5,419	5,487	5,734	6,272	6,744
Physical science <sup>1</sup> .....	625	625	551	590	600	680	736
Mathematical science .....	563	580	582	564	677	757	746
Computer science .....	1,633	2,196	1,729	1,619	1,534	1,478	1,588
Biological science .....	2,385	2,362	2,417	2,558	2,752	3,158	3,472
Agricultural science .....	158	145	140	156	171	199	202
Social sciences .....	8,708	8,240	9,692	10,823	12,622	14,896	16,325
Social science .....	5,474	5,144	5,926	6,606	7,658	9,057	9,905
Psychology .....	3,234	3,096	3,766	4,217	4,964	5,839	6,420
Non-S&E <sup>2</sup> .....	42,017	41,470	44,237	46,865	51,953	56,260	60,964
Grand total .....	57,013	56,811	60,515	64,330	71,608	78,753	85,486
Black, non-Hispanics							
Total science and engineering .....	9,114	9,344	9,700	10,400	11,539	13,056	14,322
Engineering .....	560	709	670	656	745	748	813
Sciences .....	8,554	8,635	9,030	9,744	10,794	12,308	13,509
Natural sciences .....	3,176	3,585	3,273	3,306	3,296	3,692	4,100
Physical science <sup>1</sup> .....	373	390	332	358	362	435	466
Mathematical science .....	394	435	418	378	431	530	521
Computer science .....	1,107	1,536	1,252	1,173	1,026	998	1,164
Biological science .....	1,241	1,167	1,216	1,336	1,415	1,636	1,856
Agricultural science .....	61	57	55	61	62	93	93
Social sciences .....	5,378	5,050	5,757	6,438	7,498	8,616	9,409
Social science .....	3,462	3,260	3,659	4,082	4,689	5,419	5,890
Psychology .....	1,916	1,790	2,098	2,356	2,809	3,197	3,519
Non-S&E <sup>2</sup> .....	25,409	23,817	25,224	26,311	29,232	31,737	33,971
Grand total .....	34,523	33,161	34,924	36,711	40,771	44,793	48,293
Hispanics							
Total science and engineering .....	5,280	5,445	6,009	6,484	7,463	8,661	9,282
Engineering .....	324	454	461	476	527	546	606
Sciences .....	4,956	4,991	5,548	6,008	6,936	8,115	8,676
Natural sciences .....	1,979	2,144	1,985	2,029	2,247	2,395	2,426
Physical science <sup>1</sup> .....	219	208	201	211	215	220	238
Mathematical science .....	146	125	149	164	221	203	197
Computer science .....	463	609	445	416	477	449	396
Biological science .....	1,072	1,128	1,125	1,164	1,245	1,434	1,508
Agricultural science .....	79	74	65	74	89	89	87
Social sciences .....	2,977	2,847	3,563	3,979	4,689	5,720	6,250
Social science .....	1,785	1,658	2,044	2,261	2,700	3,299	3,591
Psychology .....	1,192	1,189	1,519	1,718	1,989	2,421	2,659
Non-S&E <sup>2</sup> .....	14,962	16,113	17,350	18,697	20,783	22,320	24,738
Grand total .....	20,242	21,558	23,359	25,181	28,246	30,981	34,020

See explanatory information and SOURCES at end of table.

**Table 6. Number of earned bachelor's degrees, by field and by race/ethnicity of female recipients: 1985-93, selected years**

Page 3 of 4

Field	1985	1987	1989	1990	1991	1992	1993
American Indians or Alaskan Natives							
Total science and engineering .....	602	552	569	581	653	776	918
Engineering .....	40	30	36	23	27	31	34
Sciences .....	562	522	533	558	626	745	884
Natural sciences .....	209	179	161	152	191	185	218
Physical science <sup>1</sup> .....	33	27	18	21	23	25	32
Mathematical science .....	23	20	15	22	25	24	28
Computer science .....	63	51	32	30	31	31	28
Biological science .....	72	67	76	58	92	88	108
Agricultural science .....	18	14	20	21	20	17	22
Social sciences .....	353	343	372	406	435	560	666
Social science .....	227	226	223	263	269	339	424
Psychology .....	126	117	149	143	166	221	242
Non-S&E <sup>2</sup> .....	1,646	1,540	1,663	1,857	1,938	2,203	2,255
Grand total .....	2,248	2,092	2,232	2,438	2,591	2,979	3,173
U.S. citizens and permanent residents, total							
Total science and engineering .....	128,088	128,095	132,110	137,924	147,768	160,324	166,002
Engineering .....	10,590	10,737	9,608	9,301	9,020	9,036	9,339
Sciences .....	117,498	117,358	122,502	128,623	138,748	151,288	156,663
Natural sciences .....	49,309	46,778	41,052	40,121	40,987	43,992	46,241
Physical science <sup>1</sup> .....	6,445	5,435	4,912	4,811	4,919	5,314	5,486
Mathematical science .....	6,628	7,297	6,763	6,459	6,640	6,596	6,697
Computer science .....	13,652	12,549	8,489	7,372	6,709	6,460	6,167
Biological science .....	18,322	18,177	17,909	18,556	19,665	21,806	23,729
Agricultural science .....	4,262	3,320	2,979	2,923	3,054	3,816	4,162
Social sciences .....	68,189	70,580	81,450	88,502	97,761	107,296	110,422
Social science .....	41,305	42,143	48,020	51,642	56,619	61,868	62,941
Psychology .....	26,884	28,437	33,430	36,860	41,142	45,428	47,481
Non-S&E <sup>2</sup> .....	362,014	366,673	388,549	400,998	426,410	440,791	449,615
Grand total .....	490,102	494,768	520,659	538,922	574,178	601,115	615,617
Nonresident aliens <sup>3</sup>							
Total science and engineering .....	3,338	3,411	3,280	3,382	3,741	3,897	4,408
Engineering .....	482	521	473	490	470	471	464
Sciences .....	2,856	2,890	2,807	2,892	3,271	3,426	3,944
Natural sciences .....	1,640	1,699	1,520	1,470	1,561	1,563	1,815
Physical science <sup>1</sup> .....	200	174	199	180	197	190	239
Mathematical science .....	287	234	196	200	204	234	207
Computer science .....	672	802	618	594	574	555	603
Biological science .....	411	429	447	436	519	514	648
Agricultural science .....	70	60	60	60	67	70	118
Social sciences .....	1,216	1,191	1,287	1,422	1,710	1,863	2,129
Social science .....	868	856	946	1,057	1,197	1,374	1,519
Psychology .....	348	335	341	365	513	489	610
Non-S&E <sup>2</sup> .....	5,809	6,043	6,060	6,263	7,689	7,544	8,911
Grand total .....	9,147	9,454	9,340	9,645	11,430	11,441	13,319

See explanatory information and SOURCES at end of table.

**Table 6. Number of earned bachelor's degrees, by field and by race/ethnicity of female recipients: 1985-93, selected years**

Page 4 of 4

Field	1985	1987	1989	1990	1991	1992	1993
Unknown race/ethnicity or citizenship							
Total science and engineering .....	1,197	4,109	3,313	4,571	3,777	3,442	3,637
Engineering .....	173	145	107	182	174	121	171
Sciences .....	1,024	3,964	3,206	4,389	3,603	3,321	3,466
Natural sciences .....	541	1,264	903	1,125	956	875	831
Physical science <sup>1</sup> .....	53	124	61	103	92	106	89
Mathematical science .....	121	151	91	152	136	98	107
Computer science .....	107	538	438	408	231	169	142
Biological science .....	237	402	298	417	452	408	389
Agricultural science .....	23	49	15	45	45	94	104
Social sciences .....	483	2,700	2,303	3,264	2,647	2,446	2,635
Social science .....	293	1,676	1,411	1,870	1,564	1,457	1,504
Psychology .....	190	1,024	892	1,394	1,083	989	1,131
Non-S&E <sup>2</sup> .....	3,771	10,198	9,293	13,146	9,660	8,679	9,169
Grand total .....	4,968	14,307	12,606	17,717	13,437	12,121	12,806

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

<sup>3</sup> Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

**NOTES:** Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

**SOURCES:** Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93

**Table 7. Number of earned master's degrees, by field and by race/ethnicity of recipient: 1985-93, selected years**

Page 1 of 4

Field	1985	1987	1989	1990	1991	1992	1993
Total, all recipients							
Total science and engineering .....	64,726	66,774	70,333	72,228	72,828	76,184	81,415
Engineering .....	20,935	22,057	23,735	23,985	24,007	25,010	27,658
Sciences .....	43,791	44,717	46,598	48,243	48,821	51,174	53,757
Natural sciences .....	24,034	25,269	26,089	26,293	25,669	26,775	27,713
Physical science <sup>1</sup> .....	5,802	5,638	5,703	5,411	5,282	5,352	5,365
Mathematical science .....	2,888	3,327	3,430	3,684	3,632	4,019	4,084
Computer science .....	7,101	8,481	9,399	9,643	9,324	9,530	10,167
Biological science .....	5,091	4,999	4,953	4,893	4,806	4,816	4,798
Agricultural science .....	3,152	2,824	2,604	2,662	2,625	3,058	3,299
Social sciences .....	19,757	19,448	20,509	21,950	23,152	24,399	26,044
Social science .....	11,276	11,283	11,857	12,642	13,350	14,119	15,024
Psychology .....	8,481	8,165	8,652	9,308	9,802	10,280	11,020
Non-S&E <sup>2</sup> .....	222,487	223,758	240,717	252,719	265,670	278,023	289,558
Grand total .....	287,213	290,532	311,050	324,947	338,498	354,207	370,973
White, non-Hispanics							
Total science and engineering .....	43,982	43,360	43,945	44,450	44,513	45,649	47,975
Engineering .....	12,186	12,837	12,832	12,859	12,635	12,752	13,920
Sciences .....	31,796	30,523	31,113	31,591	31,878	32,897	34,055
Natural sciences .....	16,735	16,352	16,080	15,742	15,005	15,136	15,322
Physical science <sup>1</sup> .....	4,133	3,834	3,766	3,401	3,129	3,067	3,078
Mathematical science .....	1,873	2,012	2,032	2,169	2,068	2,336	2,354
Computer science .....	4,303	4,717	4,786	4,851	4,637	4,407	4,464
Biological science .....	4,081	3,745	3,679	3,501	3,353	3,251	3,144
Agricultural science .....	2,345	2,044	1,817	1,820	1,818	2,075	2,282
Social sciences .....	15,061	14,171	15,033	15,849	16,873	17,761	18,733
Social science .....	7,841	7,473	7,958	8,360	8,900	9,523	9,923
Psychology .....	7,220	6,698	7,075	7,489	7,973	8,238	8,810
Non-S&E <sup>2</sup> .....	179,667	173,447	186,377	192,424	203,011	211,413	217,693
Grand total .....	223,649	216,807	230,322	236,874	247,524	257,062	265,668
Asians							
Total science and engineering .....	3,285	3,455	4,100	4,055	4,310	4,763	4,846
Engineering .....	1,551	1,650	1,992	1,863	2,008	2,223	2,260
Sciences .....	1,734	1,805	2,108	2,192	2,302	2,540	2,586
Natural sciences .....	1,229	1,426	1,617	1,629	1,735	1,916	1,918
Physical science <sup>1</sup> .....	213	227	278	234	251	295	249
Mathematical science .....	164	183	178	184	189	201	197
Computer science .....	615	779	894	941	1,014	1,105	1,106
Biological science .....	179	190	223	225	231	264	305
Agricultural science .....	58	47	44	45	50	51	61
Social sciences .....	505	379	491	563	567	624	668
Social science .....	376	266	360	404	397	441	477
Psychology .....	129	113	131	159	170	183	191
Non-S&E <sup>2</sup> .....	4,520	4,674	6,074	5,939	6,760	7,530	8,323
Grand total .....	7,805	8,129	10,174	9,994	11,070	12,293	13,169

See explanatory information and SOURCES at end of table.

**Table 7. Number of earned master's degrees, by field and by race/ethnicity of recipient: 1985-93, selected years**

Page 2 of 4

Field	1985	1987	1989	1990	1991	1992	1993
Underrepresented minorities, total							
Total science and engineering .....	3,484	3,515	3,446	3,615	4,026	4,360	4,899
Engineering .....	723	953	856	868	906	996	1,195
Sciences .....	2,761	2,562	2,590	2,747	3,120	3,364	3,704
Natural sciences .....	1,097	1,122	1,025	1,002	1,195	1,258	1,358
Physical science <sup>1</sup> .....	237	210	188	194	182	209	231
Mathematical science .....	115	136	99	127	194	147	184
Computer science .....	315	352	381	357	425	480	484
Biological science .....	308	304	267	244	286	307	312
Agricultural science .....	122	120	90	80	108	115	147
Social sciences .....	1,664	1,440	1,565	1,745	1,925	2,106	2,346
Social science .....	857	758	777	868	1,031	1,118	1,282
Psychology .....	807	682	788	877	894	988	1,064
Non-S&E <sup>2</sup> .....	19,463	18,488	19,224	20,403	22,640	24,544	26,713
Grand total .....	22,947	22,003	22,670	24,018	26,666	28,904	31,612
Black, non-Hispanics							
Total science and engineering .....	1,742	1,784	1,652	1,847	2,090	2,356	2,554
Engineering .....	330	403	355	387	398	466	564
Sciences .....	1,412	1,381	1,297	1,460	1,692	1,890	1,990
Natural sciences .....	523	581	495	527	644	699	716
Physical science <sup>1</sup> .....	89	79	78	87	73	98	105
Mathematical science .....	53	73	59	70	100	77	98
Computer science .....	180	207	198	232	283	316	308
Biological science .....	151	167	124	110	137	149	135
Agricultural science .....	50	55	36	28	51	59	70
Social sciences .....	889	800	802	933	1,048	1,191	1,274
Social science .....	463	424	407	462	594	660	730
Psychology .....	426	376	395	471	454	531	544
Non-S&E <sup>2</sup> .....	12,218	11,389	11,803	12,626	13,767	15,064	16,343
Grand total .....	13,960	13,173	13,455	14,473	15,857	17,420	18,897
Hispanics							
Total science and engineering .....	1,514	1,584	1,585	1,587	1,736	1,806	2,092
Engineering .....	346	512	468	446	468	488	581
Sciences .....	1,168	1,072	1,117	1,141	1,268	1,318	1,511
Natural sciences .....	481	493	444	431	494	503	574
Physical science <sup>1</sup> .....	127	122	92	98	96	93	114
Mathematical science .....	55	60	34	51	85	66	78
Computer science .....	94	123	144	118	128	149	162
Biological science .....	139	126	126	120	136	146	151
Agricultural science .....	66	62	48	44	49	49	69
Social sciences .....	687	579	673	710	774	815	937
Social science .....	343	308	313	341	383	396	474
Psychology .....	344	271	360	369	391	419	463
Non-S&E <sup>2</sup> .....	6,216	6,197	6,548	6,908	7,948	8,450	9,279
Grand total .....	7,730	7,781	8,133	8,495	9,684	10,256	11,371

See explanatory information and SOURCES at end of table.

**Table 7. Number of earned master's degrees, by field and by race/ethnicity of recipient: 1985-93, selected years**

Page 3 of 4

Field	1985	1987	1989	1990	1991	1992	1993
American Indians or Alaskan Natives							
Total science and engineering .....	228	147	209	181	200	198	253
Engineering .....	47	38	33	35	40	42	50
Sciences .....	181	109	176	146	160	156	203
Natural sciences .....	93	48	86	44	57	56	68
Physical science <sup>1</sup> .....	21	9	18	9	13	18	12
Mathematical science .....	7	3	6	6	9	4	8
Computer science .....	41	22	39	7	14	15	14
Biological science .....	18	11	17	14	13	12	26
Agricultural science .....	6	3	6	8	8	7	8
Social sciences .....	88	61	90	102	103	100	135
Social science .....	51	26	57	65	54	62	78
Psychology .....	37	35	33	37	49	38	57
Non-S&E <sup>2</sup> .....	1,029	902	873	869	925	1,030	1,091
Grand total .....	1,257	1,049	1,082	1,050	1,125	1,228	1,344
U.S. citizens and permanent residents, total							
Total science and engineering .....	50,751	50,330	51,491	52,120	52,849	54,772	57,720
Engineering .....	14,460	15,440	15,680	15,590	15,549	15,971	17,375
Sciences .....	36,291	34,890	35,811	36,530	37,300	38,801	40,345
Natural sciences .....	19,061	18,900	18,722	18,373	17,935	18,310	18,598
Physical science <sup>1</sup> .....	4,583	4,271	4,232	3,829	3,562	3,571	3,558
Mathematical science .....	2,152	2,331	2,309	2,480	2,451	2,684	2,735
Computer science .....	5,233	5,848	6,061	6,149	6,076	5,992	6,054
Biological science .....	4,568	4,239	4,169	3,970	3,870	3,822	3,761
Agricultural science .....	2,525	2,211	1,951	1,945	1,976	2,241	2,490
Social sciences .....	17,230	15,990	17,089	18,157	19,365	20,491	21,747
Social science .....	9,074	8,497	9,095	9,632	10,328	11,082	11,682
Psychology .....	8,156	7,493	7,994	8,525	9,037	9,409	10,065
Non-S&E <sup>2</sup> .....	203,650	196,609	211,675	218,766	232,411	243,487	252,729
Grand total .....	254,401	246,939	263,166	270,886	285,260	298,259	310,449
Nonresident aliens <sup>3</sup>							
Total science and engineering .....	12,506	13,045	15,143	16,338	17,049	18,007	20,150
Engineering .....	5,694	5,781	6,747	7,239	7,520	7,899	9,119
Sciences .....	6,812	7,264	8,396	9,099	9,529	10,108	11,031
Natural sciences .....	4,572	5,035	5,922	6,330	6,734	7,316	8,062
Physical science <sup>1</sup> .....	1,098	1,056	1,238	1,364	1,504	1,538	1,602
Mathematical science .....	685	836	976	1,035	1,059	1,112	1,138
Computer science .....	1,709	2,067	2,442	2,563	2,819	3,169	3,779
Biological science .....	474	509	636	729	749	795	849
Agricultural science .....	606	567	630	639	603	702	694
Social sciences .....	2,240	2,229	2,474	2,769	2,795	2,792	2,969
Social science .....	1,944	2,009	2,215	2,384	2,478	2,490	2,637
Psychology .....	296	220	259	385	317	302	332
Non-S&E <sup>2</sup> .....	14,446	15,219	16,980	18,264	20,562	21,645	23,959
Grand total .....	26,952	28,264	32,123	34,602	37,611	39,652	44,109

See explanatory information and SOURCES at end of table.

**Table 7. Number of earned master's degrees, by field and by race/ethnicity of recipient: 1985-93, selected years**

Page 4 of 4

Field	1985	1987	1989	1990	1991	1992	1993
Unknown race/ethnicity or citizenship							
Total science and engineering .....	1,469	3,399	3,699	3,770	2,930	3,405	3,545
Engineering .....	781	836	1,308	1,156	938	1,140	1,164
Sciences .....	688	2,563	2,391	2,614	1,992	2,265	2,381
Natural sciences .....	401	1,334	1,445	1,590	1,000	1,149	1,053
Physical science <sup>1</sup> .....	121	311	233	218	216	243	205
Mathematical science .....	51	160	145	169	122	223	211
Computer science .....	159	566	896	931	429	369	334
Biological science .....	49	251	148	194	187	199	188
Agricultural science .....	21	46	23	78	46	115	115
Social sciences .....	287	1,229	946	1,024	992	1,116	1,328
Social science .....	258	777	547	626	544	547	705
Psychology .....	29	452	399	398	448	569	623
Non-S&E <sup>2</sup> .....	4,391	11,930	12,062	15,689	12,697	12,891	12,870
Grand total .....	5,860	15,329	15,761	19,459	15,627	16,296	16,415

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

3 Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

**NOTES:** Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

**SOURCES:** Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93

**Table 8. Number of earned master's degrees, by field and by race/ethnicity of male recipients: 1985-93, selected years**

Page 1 of 4

Field	1985	1987	1989	1990	1991	1992	1993
Total, all recipients							
Total science and engineering .....	44,928	45,611	47,724	48,424	47,748	49,768	53,102
Engineering .....	18,692	19,290	20,654	20,717	20,650	21,345	23,565
Sciences .....	26,236	26,321	27,070	27,707	27,098	28,423	29,537
Natural sciences .....	16,300	16,714	17,250	17,258	16,530	17,480	18,076
Physical science <sup>1</sup> .....	4,450	4,225	4,180	3,981	3,825	3,895	3,803
Mathematical science .....	1,877	2,026	2,060	2,208	2,146	2,457	2,468
Computer science .....	5,064	5,985	6,773	6,968	6,563	6,884	7,411
Biological science .....	2,662	2,555	2,491	2,393	2,315	2,316	2,365
Agricultural science .....	2,247	1,923	1,746	1,708	1,681	1,928	2,029
Social sciences .....	9,936	9,607	9,820	10,449	10,568	10,943	11,461
Social science .....	6,872	6,769	7,006	7,424	7,574	7,939	8,419
Psychology .....	3,064	2,838	2,814	3,025	2,994	3,004	3,042
Non-S&E <sup>2</sup> .....	98,788	96,044	101,675	105,601	109,147	112,531	116,651
Grand total .....	143,716	141,655	149,399	154,025	156,895	162,299	169,753
White, non-Hispanics							
Total science and engineering .....	28,918	28,120	28,115	28,250	27,634	28,113	29,493
Engineering .....	10,646	10,963	10,874	10,922	10,742	10,775	11,777
Sciences .....	18,272	17,157	17,241	17,328	16,892	17,338	17,716
Natural sciences .....	11,096	10,523	10,357	10,116	9,491	9,675	9,837
Physical science <sup>1</sup> .....	3,135	2,855	2,750	2,518	2,299	2,234	2,229
Mathematical science .....	1,170	1,187	1,173	1,275	1,169	1,389	1,332
Computer science .....	3,052	3,229	3,430	3,474	3,260	3,236	3,326
Biological science .....	2,126	1,932	1,830	1,711	1,629	1,566	1,593
Agricultural science .....	1,613	1,320	1,174	1,138	1,134	1,250	1,357
Social sciences .....	7,176	6,634	6,884	7,212	7,401	7,663	7,879
Social science .....	4,575	4,309	4,592	4,781	4,981	5,276	5,453
Psychology .....	2,601	2,325	2,292	2,431	2,420	2,387	2,426
Non-S&E <sup>2</sup> .....	77,149	71,939	75,927	77,825	80,283	82,684	84,224
Grand total .....	106,067	100,059	104,042	106,075	107,917	110,797	113,717
Asians							
Total science and engineering .....	2,475	2,559	2,939	2,799	2,959	3,276	3,237
Engineering .....	1,374	1,455	1,699	1,557	1,685	1,816	1,819
Sciences .....	1,101	1,104	1,240	1,242	1,274	1,460	1,418
Natural sciences .....	804	908	990	976	1,031	1,169	1,149
Physical science <sup>1</sup> .....	154	164	179	140	165	206	150
Mathematical science .....	108	110	117	106	108	103	121
Computer science .....	414	522	565	609	627	705	710
Biological science .....	86	85	105	97	104	125	136
Agricultural science .....	42	27	24	24	27	30	32
Social sciences .....	297	196	250	266	243	291	269
Social science .....	249	163	206	224	196	229	219
Psychology .....	48	33	44	42	47	62	50
Non-S&E <sup>2</sup> .....	2,377	2,419	2,978	2,871	3,261	3,547	3,888
Grand total .....	4,852	4,978	5,917	5,670	6,220	6,823	7,125

See explanatory information and SOURCES at end of table.

**Table 8. Number of earned master's degrees, by field and by race/ethnicity of male recipients: 1985-93, selected years**

Page 2 of 4

Field	1985	1987	1989	1990	1991	1992	1993
Underrepresented minorities, total							
Total science and engineering .....	2,064	2,130	1,990	2,005	2,129	2,340	2,637
Engineering .....	621	791	685	687	711	775	924
Sciences .....	1,443	1,339	1,305	1,318	1,418	1,565	1,713
Natural sciences .....	670	688	639	610	664	728	764
Physical science <sup>1</sup> .....	175	140	133	130	124	144	142
Mathematical science .....	69	87	58	74	112	92	102
Computer science .....	201	236	255	238	244	283	308
Biological science .....	137	137	129	120	116	137	132
Agricultural science .....	88	88	64	48	68	72	80
Social sciences .....	773	651	666	708	754	837	949
Social science .....	478	427	416	429	482	556	672
Psychology .....	295	224	250	279	272	281	277
Non-S&E <sup>2</sup> .....	7,072	6,768	7,049	7,316	8,078	8,336	9,266
Grand total .....	9,136	8,898	9,039	9,321	10,207	10,676	11,903
Black, non-Hispanics							
Total science and engineering .....	973	990	878	950	1,028	1,166	1,253
Engineering .....	274	315	262	287	299	332	407
Sciences .....	699	675	616	663	729	834	846
Natural sciences .....	300	338	290	307	338	382	386
Physical science <sup>1</sup> .....	61	45	56	61	43	66	58
Mathematical science .....	34	45	32	37	53	44	48
Computer science .....	108	126	119	140	150	175	193
Biological science .....	67	80	59	51	58	61	47
Agricultural science .....	30	42	24	18	34	36	40
Social sciences .....	399	337	326	356	391	452	460
Social science .....	253	221	206	223	262	315	345
Psychology .....	146	116	120	133	129	137	115
Non-S&E <sup>2</sup> .....	4,238	3,895	4,086	4,219	4,591	4,628	5,219
Grand total .....	5,211	4,885	4,964	5,169	5,619	5,794	6,472
Hispanics							
Total science and engineering .....	939	1,045	970	959	992	1,066	1,255
Engineering .....	304	444	394	373	378	408	480
Sciences .....	635	601	576	586	614	658	775
Natural sciences .....	307	318	282	275	294	309	341
Physical science <sup>1</sup> .....	95	88	65	63	73	64	76
Mathematical science .....	31	41	21	33	52	47	50
Computer science .....	65	91	100	93	84	98	104
Biological science .....	62	53	62	61	54	69	76
Agricultural science .....	54	45	34	25	31	31	35
Social sciences .....	328	283	294	311	320	349	434
Social science .....	195	187	176	178	196	218	282
Psychology .....	133	96	118	133	124	131	152
Non-S&E <sup>2</sup> .....	2,403	2,476	2,627	2,754	3,132	3,315	3,620
Grand total .....	3,342	3,521	3,597	3,713	4,124	4,381	4,875

See explanatory information and SOURCES at end of table.

**Table 8. Number of earned master's degrees, by field and by race/ethnicity of male recipients: 1985-93, selected years**

Page 3 of 4

Field	1985	1987	1989	1990	1991	1992	1993
American Indians or Alaskan Natives							
Total science and engineering .....	152	95	142	96	109	108	129
Engineering .....	43	32	29	27	34	35	37
Sciences .....	109	63	113	69	75	73	92
Natural sciences .....	63	32	67	28	32	37	37
Physical science <sup>1</sup> .....	19	7	12	6	8	14	8
Mathematical science .....	4	1	5	4	7	1	4
Computer science .....	28	19	36	5	10	10	11
Biological science .....	8	4	8	8	4	7	9
Agricultural science .....	4	1	6	5	3	5	5
Social sciences .....	46	31	46	41	43	36	55
Social science .....	30	19	34	28	24	23	45
Psychology .....	16	12	12	13	19	13	10
Non-S&E <sup>2</sup> .....	431	397	336	343	355	393	427
Grand total .....	583	492	478	439	464	501	556
U.S. citizens and permanent residents, total							
Total science and engineering .....	33,457	32,809	33,044	33,054	32,722	33,729	35,367
Engineering .....	12,641	13,209	13,258	13,166	13,138	13,366	14,520
Sciences .....	20,816	19,600	19,786	19,888	19,584	20,363	20,847
Natural sciences .....	12,570	12,119	11,986	11,702	11,186	11,572	11,750
Physical science <sup>1</sup> .....	3,464	3,159	3,062	2,788	2,588	2,584	2,521
Mathematical science .....	1,347	1,384	1,348	1,455	1,389	1,584	1,555
Computer science .....	3,667	3,987	4,250	4,321	4,131	4,224	4,344
Biological science .....	2,349	2,154	2,064	1,928	1,849	1,828	1,861
Agricultural science .....	1,743	1,435	1,262	1,210	1,229	1,352	1,469
Social sciences .....	8,246	7,481	7,800	8,186	8,398	8,791	9,097
Social science .....	5,302	4,899	5,214	5,434	5,659	6,061	6,344
Psychology .....	2,944	2,582	2,586	2,752	2,739	2,730	2,753
Non-S&E <sup>2</sup> .....	86,598	81,126	85,954	88,012	91,622	94,567	97,378
Grand total .....	120,055	113,935	118,998	121,066	124,344	128,296	132,745
Nonresident aliens <sup>3</sup>							
Total science and engineering .....	10,278	10,518	12,043	12,702	13,081	13,705	15,365
Engineering .....	5,342	5,344	6,208	6,543	6,673	6,995	8,023
Sciences .....	4,936	5,174	5,835	6,159	6,408	6,710	7,342
Natural sciences .....	3,434	3,678	4,265	4,439	4,691	5,087	5,572
Physical science <sup>1</sup> .....	889	834	954	1,028	1,070	1,111	1,118
Mathematical science .....	499	544	632	649	683	712	751
Computer science .....	1,269	1,575	1,848	1,933	2,144	2,380	2,811
Biological science .....	286	268	357	379	370	385	406
Agricultural science .....	491	457	474	450	424	499	486
Social sciences .....	1,502	1,496	1,570	1,720	1,717	1,623	1,770
Social science .....	1,384	1,407	1,471	1,584	1,613	1,528	1,659
Psychology .....	118	89	99	136	104	95	111
Non-S&E <sup>2</sup> .....	9,396	9,801	10,579	10,997	12,069	12,532	13,456
Grand total .....	19,674	20,319	22,622	23,699	25,150	26,237	28,821

See explanatory information and SOURCES at end of table.

**Table 8. Number of earned master's degrees, by field and by race/ethnicity of male recipients: 1985-93, selected years**

Page 4 of 4

Field	1985	1987	1989	1990	1991	1992	1993
Unknown race/ethnicity or citizenship							
Total science and engineering .....	1,193	2,284	2,637	2,668	1,945	2,334	2,370
Engineering .....	709	737	1,188	1,008	839	984	1,022
Sciences .....	484	1,547	1,449	1,660	1,106	1,350	1,348
Natural sciences .....	296	917	999	1,117	653	821	754
Physical science <sup>1</sup> .....	97	232	164	165	167	200	164
Mathematical science .....	31	98	80	104	74	161	162
Computer science .....	128	423	675	714	288	280	256
Biological science .....	27	133	70	86	96	103	98
Agricultural science .....	13	31	10	48	28	77	74
Social sciences .....	188	630	450	543	453	529	594
Social science .....	186	463	321	406	302	350	416
Psychology .....	2	167	129	137	151	179	178
Non-S&E <sup>2</sup> .....	2,794	5,117	5,142	6,592	5,456	5,432	5,817
Grand total .....	3,987	7,401	7,779	9,260	7,401	7,766	8,187

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

<sup>3</sup> Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

**NOTES:** Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

**SOURCES:** Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93

**Table 9. Number of earned master's degrees, by field and by race/ethnicity of female recipients: 1985-93, selected years**

Page 1 of 4

Field	1985	1987	1989	1990	1991	1992	1993
Total, all recipients							
Total science and engineering .....	19,798	21,163	22,609	23,804	25,080	26,416	28,313
Engineering .....	2,243	2,767	3,081	3,268	3,357	3,665	4,093
Sciences .....	17,555	18,396	19,528	20,536	21,723	22,751	24,220
Natural sciences .....	7,734	8,555	8,839	9,035	9,139	9,295	9,637
Physical science <sup>1</sup> .....	1,352	1,413	1,523	1,430	1,457	1,457	1,562
Mathematical science .....	1,011	1,301	1,370	1,476	1,486	1,562	1,616
Computer science .....	2,037	2,496	2,626	2,675	2,761	2,646	2,756
Biological science .....	2,429	2,444	2,462	2,500	2,491	2,500	2,433
Agricultural science .....	905	901	858	954	944	1,130	1,270
Social sciences .....	9,821	9,841	10,689	11,501	12,584	13,456	14,583
Social science .....	4,404	4,514	4,851	5,218	5,776	6,180	6,605
Psychology .....	5,417	5,327	5,838	6,283	6,808	7,276	7,978
Non-S&E <sup>2</sup> .....	123,699	127,714	139,042	147,118	156,523	165,492	172,907
Grand total .....	143,497	148,877	161,651	170,922	181,603	191,908	201,220
White, non-Hispanics							
Total science and engineering .....	15,064	15,240	15,830	16,200	16,879	17,536	18,482
Engineering .....	1,540	1,874	1,958	1,937	1,893	1,977	2,143
Sciences .....	13,524	13,366	13,872	14,263	14,986	15,559	16,339
Natural sciences .....	5,639	5,829	5,723	5,626	5,514	5,461	5,485
Physical science <sup>1</sup> .....	998	979	1,016	883	830	833	849
Mathematical science .....	703	825	859	894	899	947	1,022
Computer science .....	1,251	1,488	1,356	1,377	1,377	1,171	1,138
Biological science .....	1,955	1,813	1,849	1,790	1,724	1,685	1,551
Agricultural science .....	732	724	643	682	684	825	925
Social sciences .....	7,885	7,537	8,149	8,637	9,472	10,098	10,854
Social science .....	3,266	3,164	3,366	3,579	3,919	4,247	4,470
Psychology .....	4,619	4,373	4,783	5,058	5,553	5,851	6,384
Non-S&E <sup>2</sup> .....	102,518	101,508	110,450	114,599	122,728	128,729	133,469
Grand total .....	117,582	116,748	126,280	130,799	139,607	146,265	151,951
Asians							
Total science and engineering .....	810	896	1,161	1,256	1,351	1,487	1,609
Engineering .....	177	195	293	306	323	407	441
Sciences .....	633	701	868	950	1,028	1,080	1,168
Natural sciences .....	425	518	627	653	704	747	769
Physical science <sup>1</sup> .....	59	63	99	94	86	89	99
Mathematical science .....	56	73	61	78	81	98	76
Computer science .....	201	257	329	332	387	400	396
Biological science .....	93	105	118	128	127	139	169
Agricultural science .....	16	20	20	21	23	21	29
Social sciences .....	208	183	241	297	324	333	399
Social science .....	127	103	154	180	201	212	258
Psychology .....	81	80	87	117	123	121	141
Non-S&E <sup>2</sup> .....	2,143	2,255	3,096	3,068	3,499	3,983	4,435
Grand total .....	2,953	3,151	4,257	4,324	4,850	5,470	6,044

See explanatory information and SOURCES at end of table.

**Table 9. Number of earned master's degrees, by field and by race/ethnicity of female recipients: 1985-93, selected years**

Page 2 of 4

Field	1985	1987	1989	1990	1991	1992	1993
Underrepresented minorities, total							
Total science and engineering .....	1,420	1,385	1,456	1,610	1,897	2,020	2,262
Engineering .....	102	162	171	181	195	221	271
Sciences .....	1,318	1,223	1,285	1,429	1,702	1,799	1,991
Natural sciences .....	427	434	386	392	531	530	594
Physical science <sup>1</sup> .....	62	70	55	64	58	65	89
Mathematical science .....	46	49	41	53	82	55	82
Computer science .....	114	116	126	119	181	197	176
Biological science .....	171	167	138	124	170	170	180
Agricultural science .....	34	32	26	32	40	43	67
Social sciences .....	891	789	899	1,037	1,171	1,269	1,397
Social science .....	379	331	361	439	549	562	610
Psychology .....	512	458	538	598	622	707	787
Non-S&E <sup>2</sup> .....	12,391	11,720	12,175	13,087	14,562	16,208	17,447
Grand total .....	13,811	13,105	13,631	14,697	16,459	18,228	19,709
Black, non-Hispanics							
Total science and engineering .....	769	794	774	897	1,062	1,190	1,301
Engineering .....	56	88	93	100	99	134	157
Sciences .....	713	706	681	797	963	1,056	1,144
Natural sciences .....	223	243	205	220	306	317	330
Physical science <sup>1</sup> .....	28	34	22	26	30	32	47
Mathematical science .....	19	28	27	33	47	33	50
Computer science .....	72	81	79	92	133	141	115
Biological science .....	84	87	65	59	79	88	88
Agricultural science .....	20	13	12	10	17	23	30
Social sciences .....	490	463	476	577	657	739	814
Social science .....	210	203	201	239	332	345	385
Psychology .....	280	260	275	338	325	394	429
Non-S&E <sup>2</sup> .....	7,980	7,494	7,717	8,407	9,176	10,436	11,124
Grand total .....	8,749	8,288	8,491	9,304	10,238	11,626	12,425
Hispanics							
Total science and engineering .....	575	539	615	628	744	740	837
Engineering .....	42	68	74	73	90	80	101
Sciences .....	533	471	541	555	654	660	736
Natural sciences .....	174	175	162	156	200	194	233
Physical science <sup>1</sup> .....	32	34	27	35	23	29	38
Mathematical science .....	24	19	13	18	33	19	28
Computer science .....	29	32	44	25	44	51	58
Biological science .....	77	73	64	59	82	77	75
Agricultural science .....	12	17	14	19	18	18	34
Social sciences .....	359	296	379	399	454	466	503
Social science .....	148	121	137	163	187	178	192
Psychology .....	211	175	242	236	267	288	311
Non-S&E <sup>2</sup> .....	3,813	3,721	3,921	4,154	4,816	5,135	5,659
Grand total .....	4,388	4,260	4,536	4,782	5,560	5,875	6,496

See explanatory information and SOURCES at end of table.

**Table 9. Number of earned master's degrees, by field and by race/ethnicity of female recipients: 1985-93, selected years**

Page 3 of 4

Field	1985	1987	1989	1990	1991	1992	1993
American Indians or Alaskan Natives							
Total science and engineering .....	76	52	67	85	91	90	124
Engineering .....	4	6	4	8	6	7	13
Sciences .....	72	46	63	77	85	83	111
Natural sciences .....	30	16	19	16	25	19	31
Physical science <sup>1</sup> .....	2	2	6	3	5	4	4
Mathematical science .....	3	2	1	2	2	3	4
Computer science .....	13	3	3	2	4	5	3
Biological science .....	10	7	9	6	9	5	17
Agricultural science .....	2	2	0	3	5	2	3
Social sciences .....	42	30	44	61	60	64	80
Social science .....	21	7	23	37	30	39	33
Psychology .....	21	23	21	24	30	25	47
Non-S&E <sup>2</sup> .....	598	505	537	526	570	637	664
Grand total .....	674	557	604	611	661	727	788
U.S. citizens and permanent residents, total							
Total science and engineering .....	17,294	17,521	18,447	19,066	20,127	21,043	22,353
Engineering .....	1,819	2,231	2,422	2,424	2,411	2,605	2,855
Sciences .....	15,475	15,290	16,025	16,642	17,716	18,438	19,498
Natural sciences .....	6,491	6,781	6,736	6,671	6,749	6,738	6,848
Physical science <sup>1</sup> .....	1,119	1,112	1,170	1,041	974	987	1,037
Mathematical science .....	805	947	961	1,025	1,062	1,100	1,180
Computer science .....	1,566	1,861	1,811	1,828	1,945	1,768	1,710
Biological science .....	2,219	2,085	2,105	2,042	2,021	1,994	1,900
Agricultural science .....	782	776	689	735	747	889	1,021
Social sciences .....	8,984	8,509	9,289	9,971	10,967	11,700	12,650
Social science .....	3,772	3,598	3,881	4,198	4,669	5,021	5,338
Psychology .....	5,212	4,911	5,408	5,773	6,298	6,679	7,312
Non-S&E <sup>2</sup> .....	117,052	115,483	125,721	130,754	140,789	148,920	155,351
Grand total .....	134,346	133,004	144,168	149,820	160,916	169,963	177,704
Nonresident aliens <sup>3</sup>							
Total science and engineering .....	2,228	2,527	3,100	3,636	3,968	4,302	4,785
Engineering .....	352	437	539	696	847	904	1,096
Sciences .....	1,876	2,090	2,561	2,940	3,121	3,398	3,689
Natural sciences .....	1,138	1,357	1,657	1,891	2,043	2,229	2,490
Physical science <sup>1</sup> .....	209	222	284	336	434	427	484
Mathematical science .....	186	292	344	386	376	400	387
Computer science .....	440	492	594	630	675	789	968
Biological science .....	188	241	279	350	379	410	443
Agricultural science .....	115	110	156	189	179	203	208
Social sciences .....	738	733	904	1,049	1,078	1,169	1,199
Social science .....	560	602	744	800	865	962	978
Psychology .....	178	131	160	249	213	207	221
Non-S&E <sup>2</sup> .....	5,050	5,418	6,401	7,267	8,493	9,113	10,503
Grand total .....	7,278	7,945	9,501	10,903	12,461	13,415	15,288

See explanatory information and SOURCES at end of table.

**Table 9. Number of earned master's degrees, by field and by race/ethnicity of female recipients: 1985-93, selected years**

Page 4 of 4

Field	1985	1987	1989	1990	1991	1992	1993
Unknown race/ethnicity or citizenship							
Total science and engineering .....	276	1,115	1,062	1,102	985	1,071	1,175
Engineering .....	72	99	120	148	99	156	142
Sciences .....	204	1,016	942	954	886	915	1,033
Natural sciences .....	105	417	446	473	347	328	299
Physical science <sup>1</sup> .....	24	79	69	53	49	43	41
Mathematical science .....	20	62	65	65	48	62	49
Computer science .....	31	143	221	217	141	89	78
Biological science .....	22	118	78	108	91	96	90
Agricultural science .....	8	15	13	30	18	38	41
Social sciences .....	99	599	496	481	539	587	734
Social science .....	72	314	226	220	242	197	289
Psychology .....	27	285	270	261	297	390	445
Non-S&E <sup>2</sup> .....	1,597	6,813	6,920	9,097	7,241	7,459	7,053
Grand total .....	1,873	7,928	7,982	10,199	8,226	8,530	8,228

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

3 Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

**NOTES:** Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

**SOURCES:** Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93

**Table 10. Number of earned doctoral degrees, by field and by race/ethnicity of recipient: 1985-93, selected years**

Page 1 of 4

Field	1985	1987	1989	1990	1991	1992	1993
Total, all recipients							
Total science and engineering .....	18,936	19,894	21,731	22,868	24,018	24,676	25,438
Engineering .....	3,166	3,712	4,543	4,894	5,215	5,439	5,696
Sciences .....	15,770	16,182	17,188	17,974	18,803	19,237	19,742
Natural sciences .....	9,435	9,845	10,656	11,360	11,997	12,363	12,554
Physical science <sup>1</sup> .....	3,533	3,840	3,984	4,262	4,440	4,575	4,472
Mathematical science .....	688	740	859	892	1,039	1,058	1,146
Computer science .....	310	450	612	705	800	869	878
Biological science .....	3,793	3,839	4,115	4,327	4,645	4,798	5,090
Agricultural science .....	1,111	976	1,086	1,174	1,073	1,063	968
Social sciences .....	6,335	6,337	6,532	6,614	6,806	6,874	7,188
Social science .....	3,217	3,164	3,324	3,332	3,556	3,610	3,769
Psychology .....	3,118	3,173	3,208	3,282	3,250	3,264	3,419
Non-S&E <sup>2</sup> .....	12,362	12,473	12,593	13,200	13,499	14,177	14,316
Grand total .....	31,298	32,367	34,324	36,068	37,517	38,853	39,754
White, non-Hispanics							
Total science and engineering .....	12,172	12,064	12,517	13,218	13,352	13,353	13,767
Engineering .....	1,188	1,460	1,730	1,847	1,843	1,885	2,030
Sciences .....	10,984	10,604	10,787	11,371	11,509	11,468	11,737
Natural sciences .....	6,433	6,218	6,492	6,817	6,893	6,830	6,846
Physical science <sup>1</sup> .....	2,331	2,353	2,327	2,509	2,526	2,463	2,372
Mathematical science .....	350	319	369	375	422	425	479
Computer science .....	177	230	320	343	355	379	411
Biological science .....	2,915	2,761	2,906	2,980	3,044	3,070	3,146
Agricultural science .....	660	555	570	610	546	493	438
Social sciences .....	4,551	4,386	4,295	4,554	4,616	4,638	4,891
Social science .....	1,961	1,868	1,836	1,902	1,950	1,993	2,068
Psychology .....	2,590	2,518	2,459	2,652	2,666	2,645	2,823
Non-S&E <sup>2</sup> .....	9,141	9,074	9,086	9,737	9,871	10,292	10,326
Grand total .....	21,313	21,138	21,603	22,955	23,223	23,645	24,093
Asians							
Total science and engineering .....	849	940	994	1,052	1,218	1,352	1,646
Engineering .....	306	331	362	375	416	455	542
Sciences .....	543	609	632	677	802	897	1,104
Natural sciences .....	403	445	484	506	614	705	855
Physical science <sup>1</sup> .....	174	166	182	184	200	258	293
Mathematical science .....	34	41	24	28	57	51	79
Computer science .....	17	27	53	52	66	86	81
Biological science .....	152	173	200	207	262	272	372
Agricultural science .....	26	38	25	35	29	38	30
Social sciences .....	140	164	148	171	188	192	249
Social science .....	96	116	93	118	126	136	175
Psychology .....	44	48	55	53	62	56	74
Non-S&E <sup>2</sup> .....	267	253	284	309	357	420	412
Grand total .....	1,116	1,193	1,278	1,361	1,575	1,772	2,058

See explanatory information and SOURCES at end of table.

**Table 10. Number of earned doctoral degrees, by field and by race/ethnicity of recipient: 1985-93, selected years**

Page 2 of 4

Field	1985	1987	1989	1990	1991	1992	1993
Underrepresented minorities, total							
Total science and engineering .....	713	736	814	892	1,011	997	1,061
Engineering .....	57	67	89	98	122	131	118
Sciences .....	656	669	725	794	889	866	943
Natural sciences .....	256	289	316	333	374	379	420
Physical science <sup>1</sup> .....	71	91	120	123	128	134	148
Mathematical science .....	19	22	19	16	20	18	25
Computer science .....	9	9	7	6	21	15	14
Biological science .....	125	135	135	144	167	176	195
Agricultural science .....	32	32	35	44	38	36	38
Social sciences .....	400	380	409	461	515	487	523
Social science .....	216	176	208	218	251	233	256
Psychology .....	184	204	201	243	264	254	267
Non-S&E <sup>2</sup> .....	1,068	1,008	952	1,105	1,159	1,183	1,321
Grand total .....	1,781	1,744	1,766	1,997	2,170	2,180	2,382
Black, non-Hispanics							
Total science and engineering .....	375	320	376	379	459	406	472
Engineering .....	34	25	35	40	55	49	51
Sciences .....	341	295	341	339	404	357	421
Natural sciences .....	110	109	115	106	131	117	150
Physical science <sup>1</sup> .....	31	22	35	33	34	32	45
Mathematical science .....	7	11	8	4	11	4	8
Computer science .....	3	2	1	1	8	5	6
Biological science .....	53	60	57	51	60	61	74
Agricultural science .....	16	14	14	17	18	15	17
Social sciences .....	231	186	226	233	273	240	271
Social science .....	126	93	129	117	144	137	152
Psychology .....	105	93	97	116	129	103	119
Non-S&E <sup>2</sup> .....	670	593	597	680	706	705	815
Grand total .....	1,045	913	973	1,059	1,165	1,111	1,287
Hispanics							
Total science and engineering .....	297	363	385	471	496	522	546
Engineering .....	22	35	47	54	61	71	65
Sciences .....	275	328	338	417	435	451	481
Natural sciences .....	125	157	174	214	215	232	251
Physical science <sup>1</sup> .....	36	62	69	86	81	89	94
Mathematical science .....	12	11	11	11	9	12	16
Computer science .....	6	4	4	5	12	8	7
Biological science .....	59	64	71	89	97	102	114
Agricultural science .....	12	16	19	23	16	21	20
Social sciences .....	150	171	164	203	220	219	230
Social science .....	81	76	71	94	98	83	97
Psychology .....	69	95	93	109	122	136	133
Non-S&E <sup>2</sup> .....	343	353	314	371	377	397	430
Grand total .....	640	716	699	842	873	919	976

See explanatory information and SOURCES at end of table.

**Table 10. Number of earned doctoral degrees, by field and by race/ethnicity of recipient: 1985-93, selected years**

Page 3 of 4

Field	1985	1987	1989	1990	1991	1992	1993
American Indians or Alaskan Natives							
Total science and engineering .....	41	53	53	42	56	69	43
Engineering .....	1	7	7	4	6	11	2
Sciences .....	40	46	46	38	50	58	41
Natural sciences .....	21	23	27	13	28	30	19
Physical science <sup>1</sup> .....	4	7	16	4	13	13	9
Mathematical science .....	0	0	0	1	0	2	1
Computer science .....	0	3	2	0	1	2	1
Biological science .....	13	11	7	4	10	13	7
Agricultural science .....	4	2	2	4	4	0	1
Social sciences .....	19	23	19	25	22	28	22
Social science .....	9	7	8	7	9	13	7
Psychology .....	10	16	11	18	13	15	15
Non-S&E <sup>2</sup> .....	55	62	41	54	76	81	76
Grand total .....	96	115	94	96	132	150	119
U.S. citizens and permanent residents, total							
Total science and engineering .....	13,734	13,740	14,325	15,162	15,581	15,702	16,474
Engineering .....	1,551	1,858	2,181	2,320	2,381	2,471	2,690
Sciences .....	12,183	11,882	12,144	12,842	13,200	13,231	13,784
Natural sciences .....	7,092	6,952	7,292	7,656	7,881	7,914	8,121
Physical science <sup>1</sup> .....	2,576	2,610	2,629	2,816	2,854	2,855	2,813
Mathematical science .....	403	382	412	419	499	494	583
Computer science .....	203	266	380	401	442	480	506
Biological science .....	3,192	3,069	3,241	3,331	3,473	3,518	3,713
Agricultural science .....	718	625	630	689	613	567	506
Social sciences .....	5,091	4,930	4,852	5,186	5,319	5,317	5,663
Social science .....	2,273	2,160	2,137	2,238	2,327	2,362	2,499
Psychology .....	2,818	2,770	2,715	2,948	2,992	2,955	3,164
Non-S&E <sup>2</sup> .....	10,476	10,335	10,322	11,151	11,387	11,895	12,059
Grand total .....	24,210	24,075	24,647	26,313	26,968	27,597	28,533
Nonresident aliens <sup>3</sup>							
Total science and engineering .....	4,048	4,468	5,391	6,571	7,642	8,092	8,111
Engineering .....	1,419	1,532	1,940	2,277	2,634	2,743	2,783
Sciences .....	2,629	2,936	3,451	4,294	5,008	5,349	5,328
Natural sciences .....	1,845	2,149	2,499	3,232	3,782	4,089	4,056
Physical science <sup>1</sup> .....	739	923	1,012	1,244	1,442	1,582	1,497
Mathematical science .....	238	302	346	424	506	511	517
Computer science .....	89	143	178	271	340	365	349
Biological science .....	424	492	608	853	1,059	1,159	1,246
Agricultural science .....	355	289	355	440	435	472	447
Social sciences .....	784	787	952	1,062	1,226	1,260	1,272
Social science .....	703	702	846	945	1,093	1,104	1,124
Psychology .....	81	85	106	117	133	156	148
Non-S&E <sup>2</sup> .....	1,180	1,142	1,255	1,522	1,667	1,858	1,812
Grand total .....	5,228	5,610	6,646	8,093	9,309	9,950	9,923

See explanatory information and SOURCES at end of table.

**Table 10. Number of earned doctoral degrees, by field and by race/ethnicity of recipient: 1985-93, selected years**

Page 4 of 4

Field	1985	1987	1989	1990	1991	1992	1993
Unknown race/ethnicity or citizenship							
Total science and engineering .....	1,154	1,686	2,015	1,135	795	882	853
Engineering .....	196	322	422	297	200	225	223
Sciences .....	958	1,364	1,593	838	595	657	630
Natural sciences .....	498	744	865	472	334	360	377
Physical science <sup>1</sup> .....	218	307	343	202	144	138	162
Mathematical science .....	47	56	101	49	34	53	46
Computer science .....	18	41	54	33	18	24	23
Biological science .....	177	278	266	143	113	121	131
Agricultural science .....	38	62	101	45	25	24	15
Social sciences .....	460	620	728	366	261	297	253
Social science .....	241	302	341	149	136	144	146
Psychology .....	219	318	387	217	125	153	107
Non-S&E <sup>2</sup> .....	706	996	1,016	527	445	424	445
Grand total .....	1,860	2,682	3,031	1,662	1,240	1,306	1,298

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

<sup>3</sup> Nonresident aliens include foreign citizens on temporary visas only.

**SOURCE:** National Science Foundation/SRS, Survey of Earned Doctorates

**Table 11. Number of earned doctoral degrees, by field and by race/ethnicity of male recipients: 1985-93, selected years**

Page 1 of 4

Field	1985	1987	1989	1990	1991	1992	1993
Total, all recipients							
Total science and engineering .....	14,045	14,582	15,622	16,498	17,087	17,594	17,786
Engineering .....	2,968	3,470	4,168	4,479	4,748	4,933	5,175
Sciences .....	11,077	11,112	11,454	12,019	12,339	12,661	12,611
Natural sciences .....	7,312	7,484	7,857	8,430	8,842	9,015	8,932
Physical science <sup>1</sup> .....	2,958	3,200	3,217	3,460	3,582	3,616	3,529
Mathematical science .....	582	615	704	734	840	853	882
Computer science .....	277	385	504	595	683	749	741
Biological science .....	2,555	2,479	2,573	2,713	2,873	2,967	3,040
Agricultural science .....	940	805	859	928	864	830	740
Social sciences .....	3,765	3,628	3,597	3,589	3,497	3,646	3,679
Social science .....	2,188	2,153	2,189	2,221	2,243	2,311	2,349
Psychology .....	1,577	1,475	1,408	1,368	1,254	1,335	1,330
Non-S&E <sup>2</sup> .....	6,509	6,357	6,190	6,464	6,560	6,839	6,860
Grand total .....	20,554	20,939	21,812	22,962	23,647	24,433	24,646
White, non-Hispanics							
Total science and engineering .....	8,528	8,231	8,225	8,692	8,602	8,642	8,739
Engineering .....	1,082	1,316	1,506	1,621	1,608	1,645	1,767
Sciences .....	7,446	6,915	6,719	7,071	6,994	6,997	6,972
Natural sciences .....	4,907	4,588	4,583	4,861	4,916	4,783	4,713
Physical science <sup>1</sup> .....	1,960	1,935	1,843	2,014	2,000	1,929	1,872
Mathematical science .....	280	258	281	296	337	332	354
Computer science .....	156	184	253	263	282	310	328
Biological science .....	1,964	1,765	1,785	1,825	1,874	1,848	1,836
Agricultural science .....	547	446	421	463	423	364	323
Social sciences .....	2,539	2,327	2,136	2,210	2,078	2,214	2,259
Social science .....	1,237	1,156	1,068	1,132	1,081	1,130	1,160
Psychology .....	1,302	1,171	1,068	1,078	997	1,084	1,099
Non-S&E <sup>2</sup> .....	4,662	4,394	4,228	4,526	4,572	4,650	4,628
Grand total .....	13,190	12,625	12,453	13,218	13,174	13,292	13,367
Asians							
Total science and engineering .....	657	707	750	790	836	939	1,107
Engineering .....	284	309	328	340	367	394	481
Sciences .....	373	398	422	450	469	545	626
Natural sciences .....	293	303	334	349	388	443	510
Physical science <sup>1</sup> .....	132	126	141	141	145	171	187
Mathematical science .....	28	30	21	39	33	43	43
Computer science .....	17	21	43	44	51	74	62
Biological science .....	95	95	110	115	133	139	198
Agricultural science .....	21	31	19	28	20	26	20
Social sciences .....	80	95	88	101	81	102	116
Social science .....	57	78	60	79	66	83	94
Psychology .....	23	17	28	22	15	19	22
Non-S&E <sup>2</sup> .....	151	137	163	164	169	210	211
Grand total .....	808	844	913	954	1,005	1,149	1,318

See explanatory information and SOURCES at end of table.

**Table 11. Number of earned doctoral degrees, by field and by race/ethnicity of male recipients: 1985-93, selected years**

Page 2 of 4

Field	1985	1987	1989	1990	1991	1992	1993
Underrepresented minorities, total							
Total science and engineering .....	441	443	485	548	614	595	609
Engineering .....	53	61	76	83	102	107	95
Sciences .....	388	382	409	465	512	488	514
Natural sciences .....	176	198	220	225	260	258	275
Physical science <sup>1</sup> .....	56	67	89	83	106	99	112
Mathematical science .....	14	18	12	11	12	14	22
Computer science .....	7	7	2	5	16	13	8
Biological science .....	72	82	87	89	92	104	104
Agricultural science .....	27	24	30	37	34	28	29
Social sciences .....	212	184	189	240	252	230	239
Social science .....	137	114	120	138	151	140	144
Psychology .....	75	70	69	102	101	90	95
Non-S&E <sup>2</sup> .....	448	448	405	444	474	495	556
Grand total .....	889	891	890	992	1,088	1,090	1,165
Black, non-Hispanics							
Total science and engineering .....	237	189	222	231	268	240	265
Engineering .....	30	24	32	34	47	43	40
Sciences .....	207	165	190	197	221	197	225
Natural sciences .....	81	73	78	74	85	82	99
Physical science <sup>1</sup> .....	24	18	27	24	28	25	35
Mathematical science .....	7	9	5	3	7	4	7
Computer science .....	3	1	0	1	4	4	2
Biological science .....	32	35	33	30	29	37	42
Agricultural science .....	15	10	13	16	17	12	13
Social sciences .....	126	92	112	123	136	115	126
Social science .....	84	58	76	79	92	87	82
Psychology .....	42	34	36	44	44	28	44
Non-S&E <sup>2</sup> .....	260	251	240	258	284	280	324
Grand total .....	497	440	462	489	552	520	589
Hispanics							
Total science and engineering .....	183	222	230	292	309	313	319
Engineering .....	22	30	39	45	51	56	53
Sciences .....	161	192	191	247	258	257	266
Natural sciences .....	83	109	122	140	154	154	162
Physical science <sup>1</sup> .....	28	44	48	56	68	63	70
Mathematical science .....	7	9	7	7	5	9	14
Computer science .....	4	4	1	4	11	7	6
Biological science .....	36	40	50	56	57	59	57
Agricultural science .....	8	12	16	17	13	16	15
Social sciences .....	78	83	69	107	104	103	104
Social science .....	50	51	39	55	52	47	59
Psychology .....	28	32	30	52	52	56	45
Non-S&E <sup>2</sup> .....	169	167	149	159	153	175	197
Grand total .....	352	389	379	451	462	488	516

See explanatory information and SOURCES at end of table.

**Table 11. Number of earned doctoral degrees, by field and by race/ethnicity of male recipients: 1985-93, selected years**

Page 3 of 4

Field	1985	1987	1989	1990	1991	1992	1993
American Indians or Alaskan Natives							
Total science and engineering .....	21	32	33	25	37	42	25
Engineering .....	1	7	5	4	4	8	2
Sciences .....	20	25	28	21	33	34	23
Natural sciences .....	12	16	20	11	21	22	14
Physical science <sup>1</sup> .....	4	5	14	3	10	11	7
Mathematical science .....	0	0	0	1	0	1	1
Computer science .....	0	2	1	0	1	2	0
Biological science .....	4	7	4	3	6	8	5
Agricultural science .....	4	2	1	4	4	0	1
Social sciences .....	8	9	8	10	12	12	9
Social science .....	3	5	5	4	7	6	3
Psychology .....	5	4	3	6	5	6	6
Non-S&E <sup>2</sup> .....	19	30	16	27	37	40	35
Grand total .....	40	62	49	52	74	82	60
U.S. citizens and permanent residents, total							
Total science and engineering .....	9,626	9,381	9,460	10,030	10,052	10,176	10,455
Engineering .....	1,419	1,686	1,910	2,044	2,077	2,146	2,343
Sciences .....	8,207	7,695	7,550	7,986	7,975	8,030	8,112
Natural sciences .....	5,376	5,089	5,137	5,435	5,564	5,484	5,498
Physical science <sup>1</sup> .....	2,148	2,128	2,073	2,238	2,251	2,199	2,171
Mathematical science .....	322	306	314	328	388	379	419
Computer science .....	180	212	298	312	349	397	398
Biological science .....	2,131	1,942	1,982	2,029	2,099	2,091	2,138
Agricultural science .....	595	501	470	528	477	418	372
Social sciences .....	2,831	2,606	2,413	2,551	2,411	2,546	2,614
Social science .....	1,431	1,348	1,248	1,349	1,298	1,353	1,398
Psychology .....	1,400	1,258	1,165	1,202	1,113	1,193	1,216
Non-S&E <sup>2</sup> .....	5,261	4,979	4,796	5,134	5,215	5,355	5,395
Grand total .....	14,887	14,360	14,256	15,164	15,267	15,531	15,850
Nonresident aliens <sup>3</sup>							
Total science and engineering .....	3,542	3,904	4,609	5,590	6,413	6,741	6,657
Engineering .....	1,363	1,478	1,850	2,157	2,485	2,574	2,622
Sciences .....	2,179	2,426	2,759	3,433	3,928	4,167	4,035
Natural sciences .....	1,536	1,794	2,011	2,608	3,003	3,230	3,127
Physical science <sup>1</sup> .....	631	815	852	1,048	1,206	1,296	1,216
Mathematical science .....	216	260	299	363	420	427	422
Computer science .....	81	138	160	256	317	329	323
Biological science .....	293	333	400	582	694	787	809
Agricultural science .....	315	248	300	359	366	391	357
Social sciences .....	643	632	748	825	925	937	908
Social science .....	590	584	688	763	848	856	844
Psychology .....	53	48	60	62	77	81	64
Non-S&E <sup>2</sup> .....	853	818	833	1,042	1,103	1,219	1,200
Grand total .....	4,395	4,722	5,442	6,632	7,516	7,960	7,857

See explanatory information and SOURCES at end of table.

**Table 11. Number of earned doctoral degrees, by field and by race/ethnicity  
of male recipients: 1985-93, selected years**

Page 4 of 4

Field	1985	1987	1989	1990	1991	1992	1993
Unknown race/ethnicity or citizenship							
Total science and engineering .....	877	1,297	1,553	878	622	677	674
Engineering .....	186	306	408	278	186	213	210
Sciences .....	691	991	1,145	600	436	464	464
Natural sciences .....	400	601	709	387	275	301	307
Physical science <sup>1</sup> .....	179	257	292	174	125	121	142
Mathematical science .....	44	49	91	43	32	47	41
Computer science .....	16	35	46	27	17	23	20
Biological science .....	131	204	191	102	80	89	93
Agricultural science .....	30	56	89	41	21	21	11
Social sciences .....	291	390	436	213	161	163	157
Social science .....	167	221	253	109	97	102	107
Psychology .....	124	169	183	104	64	61	50
Non-S&E <sup>2</sup> .....	395	560	561	288	242	265	265
Grand total .....	1,272	1,857	2,114	1,166	864	942	939

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

<sup>3</sup> Nonresident aliens include foreign citizens on temporary visas only.

**SOURCE:** National Science Foundation/SRS, Survey of Earned Doctorates

**Table 12. Number of earned doctoral degrees, by field and by race/ethnicity of female recipients: 1985-93, selected years**

Page 1 of 4

Field	1985	1987	1989	1990	1991	1992	1993
Total, all recipients							
Total science and engineering .....	4,891	5,312	6,109	6,370	6,931	7,082	7,652
Engineering .....	198	242	375	415	467	506	521
Sciences .....	4,693	5,070	5,734	5,955	6,464	6,576	7,131
Natural sciences .....	2,123	2,361	2,799	2,930	3,155	3,348	3,622
Physical science <sup>1</sup> .....	575	640	767	802	858	959	943
Mathematical science .....	106	125	155	158	199	205	264
Computer science .....	33	65	108	110	117	120	137
Biological science .....	1,238	1,360	1,542	1,614	1,772	1,831	2,050
Agricultural science .....	171	171	227	246	209	233	228
Social sciences .....	2,570	2,709	2,935	3,025	3,309	3,228	3,509
Social science .....	1,029	1,011	1,135	1,111	1,313	1,299	1,420
Psychology .....	1,541	1,698	1,800	1,914	1,996	1,929	2,089
Non-S&E <sup>2</sup> .....	5,853	6,116	6,403	6,736	6,939	7,338	7,456
Grand total .....	10,744	11,428	12,512	13,106	13,870	14,420	15,108
White, non-Hispanics							
Total science and engineering .....	3,644	3,833	4,292	4,526	4,750	4,711	5,028
Engineering .....	106	144	224	226	235	240	263
Sciences .....	3,538	3,689	4,068	4,300	4,515	4,471	4,765
Natural sciences .....	1,526	1,630	1,909	1,956	1,977	2,047	2,133
Physical science <sup>1</sup> .....	371	418	484	495	526	534	500
Mathematical science .....	70	61	88	79	85	93	125
Computer science .....	21	46	67	80	73	69	83
Biological science .....	951	996	1,121	1,155	1,170	1,222	1,310
Agricultural science .....	113	109	149	147	123	129	115
Social sciences .....	2,012	2,059	2,159	2,344	2,538	2,424	2,632
Social science .....	724	712	768	770	869	863	908
Psychology .....	1,288	1,347	1,391	1,574	1,669	1,561	1,724
Non-S&E <sup>2</sup> .....	4,479	4,680	4,858	5,211	5,299	5,642	5,698
Grand total .....	8,123	8,513	9,150	9,737	10,049	10,353	10,726
Asians							
Total science and engineering .....	192	233	244	262	382	413	539
Engineering .....	22	22	34	35	49	61	61
Sciences .....	170	211	210	227	333	352	478
Natural sciences .....	110	142	150	157	226	262	345
Physical science <sup>1</sup> .....	42	40	41	43	55	87	106
Mathematical science .....	6	11	3	7	18	18	36
Computer science .....	0	6	10	8	15	12	19
Biological science .....	57	78	90	92	129	133	174
Agricultural science .....	5	7	6	7	9	12	10
Social sciences .....	60	69	60	70	107	90	133
Social science .....	39	38	33	39	60	53	81
Psychology .....	21	31	27	31	47	37	52
Non-S&E <sup>2</sup> .....	116	116	121	145	188	210	201
Grand total .....	308	349	365	407	570	623	740

See explanatory information and SOURCES at end of table.

**Table 12. Number of earned doctoral degrees, by field and by race/ethnicity of female recipients: 1985-93, selected years**

Page 2 of 4

Field	1985	1987	1989	1990	1991	1992	1993
Underrepresented minorities, total							
Total science and engineering .....	272	293	329	344	397	402	452
Engineering .....	4	6	13	15	20	24	23
Sciences .....	268	287	316	329	377	378	429
Natural sciences .....	80	91	96	108	114	121	145
Physical science <sup>1</sup> .....	15	24	31	40	22	35	36
Mathematical science .....	5	4	7	5	8	4	3
Computer science .....	2	2	5	1	5	2	6
Biological science .....	53	53	48	55	75	72	91
Agricultural science .....	5	8	5	7	4	8	9
Social sciences .....	188	196	220	221	263	257	284
Social science .....	79	62	88	80	100	93	112
Psychology .....	109	134	132	141	163	164	172
Non-S&E <sup>2</sup> .....	620	560	547	661	685	688	765
Grand total .....	892	853	876	1,005	1,082	1,090	1,217
Black, non-Hispanics							
Total science and engineering .....	138	131	154	148	191	166	207
Engineering .....	4	1	3	6	8	6	11
Sciences .....	134	130	151	142	183	160	196
Natural sciences .....	29	36	37	32	46	35	51
Physical science <sup>1</sup> .....	7	4	8	9	6	7	10
Mathematical science .....	0	2	3	1	4	0	1
Computer science .....	0	1	1	0	4	1	4
Biological science .....	21	25	24	21	31	24	32
Agricultural science .....	1	4	1	1	1	3	4
Social sciences .....	105	94	114	110	137	125	145
Social science .....	42	35	53	38	52	50	70
Psychology .....	63	59	61	72	85	75	75
Non-S&E <sup>2</sup> .....	410	342	357	422	422	425	491
Grand total .....	548	473	511	570	613	591	698
Hispanics							
Total science and engineering .....	114	141	155	179	187	209	227
Engineering .....	0	5	8	9	10	15	12
Sciences .....	114	136	147	170	177	194	215
Natural sciences .....	42	48	52	74	61	78	89
Physical science <sup>1</sup> .....	8	18	21	30	13	26	24
Mathematical science .....	5	2	4	4	4	3	2
Computer science .....	2	0	3	1	1	1	1
Biological science .....	23	24	21	33	40	43	57
Agricultural science .....	4	4	3	6	3	5	5
Social sciences .....	72	88	95	96	116	116	126
Social science .....	31	25	32	39	46	36	38
Psychology .....	41	63	63	57	70	80	88
Non-S&E <sup>2</sup> .....	174	186	165	212	224	222	233
Grand total .....	288	327	320	391	411	431	460

See explanatory information and SOURCES at end of table.

**Table 12. Number of earned doctoral degrees, by field and by race/ethnicity of female recipients: 1985-93, selected years**

Page 3 of 4

Field	1985	1987	1989	1990	1991	1992	1993
American Indians or Alaskan Natives							
Total science and engineering .....	20	21	20	17	19	27	18
Engineering .....	0	0	2	0	2	3	0
Sciences .....	20	21	18	17	17	24	18
Natural sciences .....	9	7	7	2	7	8	5
Physical science <sup>1</sup> .....	0	2	2	1	3	2	2
Mathematical science .....	0	0	0	0	0	1	0
Computer science .....	0	1	1	0	0	0	1
Biological science .....	9	4	3	1	4	5	2
Agricultural science .....	0	0	1	0	0	0	0
Social sciences .....	11	14	11	15	10	16	13
Social science .....	6	2	3	3	2	7	4
Psychology .....	5	12	8	12	8	9	9
Non-S&E <sup>2</sup> .....	36	32	25	27	39	41	41
Grand total .....	56	53	45	44	58	68	59
U.S. citizens and permanent residents, total							
Total science and engineering .....	4,108	4,359	4,865	5,132	5,529	5,526	6,019
Engineering .....	132	172	271	276	304	325	347
Sciences .....	3,976	4,187	4,594	4,856	5,225	5,201	5,672
Natural sciences .....	1,716	1,863	2,155	2,221	2,317	2,430	2,623
Physical science <sup>1</sup> .....	428	482	556	578	603	656	642
Mathematical science .....	81	76	98	91	111	115	164
Computer science .....	23	54	82	89	93	83	108
Biological science .....	1,061	1,127	1,259	1,302	1,374	1,427	1,575
Agricultural science .....	123	124	160	161	136	149	134
Social sciences .....	2,260	2,324	2,439	2,635	2,908	2,771	3,049
Social science .....	842	812	889	889	1,029	1,009	1,101
Psychology .....	1,418	1,512	1,550	1,746	1,879	1,762	1,948
Non-S&E <sup>2</sup> .....	5,215	5,356	5,526	6,017	6,172	6,540	6,664
Grand total .....	9,323	9,715	10,391	11,149	11,701	12,066	12,683
Nonresident aliens <sup>3</sup>							
Total science and engineering .....	506	564	782	981	1,229	1,351	1,454
Engineering .....	56	54	90	120	149	169	161
Sciences .....	450	510	692	861	1,080	1,182	1,293
Natural sciences .....	309	355	488	624	779	859	929
Physical science <sup>1</sup> .....	108	108	160	196	236	286	281
Mathematical science .....	22	42	47	61	86	84	95
Computer science .....	8	5	18	15	23	36	26
Biological science .....	131	159	208	271	365	372	437
Agricultural science .....	40	41	55	81	69	81	90
Social sciences .....	141	155	204	237	301	323	364
Social science .....	113	118	158	182	245	248	280
Psychology .....	28	37	46	55	56	75	84
Non-S&E <sup>2</sup> .....	327	324	422	480	564	639	612
Grand total .....	833	888	1,204	1,461	1,793	1,990	2,066

See explanatory information and SOURCES at end of table.

**Table 12. Number of earned doctoral degrees, by field and by race/ethnicity of female recipients: 1985-93, selected years**

Page 4 of 4

Field	1985	1987	1989	1990	1991	1992	1993
Unknown race/ethnicity or citizenship							
Total science and engineering .....	277	389	462	257	173	205	179
Engineering .....	10	16	14	19	14	12	13
Sciences .....	267	373	448	238	159	193	166
Natural sciences .....	98	143	156	85	59	59	70
Physical science <sup>1</sup> .....	39	50	51	28	19	17	20
Mathematical science .....	3	7	10	6	2	6	5
Computer science .....	2	6	8	6	1	1	3
Biological science .....	46	74	75	41	33	32	38
Agricultural science .....	8	6	12	4	4	3	4
Social sciences .....	169	230	292	153	100	134	96
Social science .....	74	81	88	40	39	42	39
Psychology .....	95	149	204	113	61	92	57
Non-S&E <sup>2</sup> .....	311	436	455	239	203	159	180
Grand total .....	588	825	917	496	376	364	359

1 In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

2 Non-S&E refers to non-science and non-engineering.

3 Nonresident aliens include foreign citizens on temporary visas only.

**SOURCE:** National Science Foundation/SRS, Survey of Earned Doctorates

**Table 13. Number of earned bachelor's degrees conferred by historically black colleges and universities (HBCUs) to blacks, by field: 1985-93, selected years**

Page 1 of 1

Field	1985	1987	1989	1990	1991	1992	1993
Total, all black recipients							
Total science and engineering .....	17,040	17,230	17,385	18,230	19,987	22,431	24,421
Engineering .....	2,039	2,315	2,067	2,072	2,229	2,362	2,577
Sciences .....	15,001	14,915	15,318	16,158	17,758	20,069	21,844
Natural sciences .....	6,009	6,524	6,005	5,782	5,834	6,401	6,972
Physical science <sup>1</sup> .....	830	823	697	650	753	816	836
Mathematical science .....	770	834	792	720	811	904	965
Computer science .....	2,143	2,820	2,457	2,247	1,997	2,090	2,213
Biological science .....	2,047	1,890	1,916	1,994	2,111	2,385	2,739
Agricultural science .....	219	157	143	171	162	206	219
Social sciences .....	8,992	8,391	9,313	10,376	11,924	13,668	14,872
Social science .....	6,325	5,940	6,570	7,226	8,236	9,489	10,254
Psychology .....	2,667	2,451	2,743	3,150	3,688	4,179	4,618
Non-S&E <sup>2</sup> .....	39,246	36,604	38,244	39,871	43,795	47,641	51,114
Grand total .....	56,286	53,834	55,629	58,101	63,782	70,072	75,535
Black recipients from HBCUs							
Total science and engineering .....	4,933	5,229	5,054	5,190	5,679	6,363	7,368
Engineering .....	438	557	474	524	589	594	700
Sciences .....	4,495	4,672	4,580	4,666	5,090	5,769	6,668
Natural sciences .....	2,369	2,750	2,513	2,353	2,363	2,599	3,021
Physical science <sup>1</sup> .....	363	346	320	296	358	376	390
Mathematical science .....	382	425	381	307	369	420	463
Computer science .....	740	1,187	1,048	899	748	780	904
Biological science .....	783	714	693	764	792	906	1,155
Agricultural science .....	101	78	71	87	96	117	109
Social sciences .....	2,126	1,922	2,067	2,313	2,727	3,170	3,647
Social science .....	1,581	1,457	1,517	1,651	1,886	2,201	2,507
Psychology .....	545	465	550	662	841	969	1,140
Non-S&E <sup>2</sup> .....	11,808	10,853	10,435	10,744	11,910	12,899	14,073
Grand total .....	16,741	16,082	15,489	15,934	17,589	19,262	21,441
Percent from HBCUs							
Total science and engineering .....	28.9	30.3	29.1	28.5	28.4	28.4	30.2
Engineering .....	21.5	24.1	22.9	25.3	26.4	25.1	27.2
Sciences .....	30.0	31.3	29.9	28.9	28.7	28.7	30.5
Natural sciences .....	39.4	42.2	41.8	40.7	40.5	40.6	43.3
Physical science <sup>1</sup> .....	43.7	42.0	45.9	45.5	47.5	46.1	46.7
Mathematical science .....	49.6	51.0	48.1	42.6	45.5	46.5	48.0
Computer science .....	34.5	42.1	42.7	40.0	37.5	37.3	40.8
Biological science .....	38.3	37.8	36.2	38.3	37.5	38.0	42.2
Agricultural science .....	46.1	49.7	49.7	50.9	59.3	56.8	49.8
Social sciences .....	23.6	22.9	22.2	22.3	22.9	23.2	24.5
Social science .....	25.0	24.5	23.1	22.8	22.9	23.2	24.4
Psychology .....	20.4	19.0	20.1	21.0	22.8	23.2	24.7
Non-S&E <sup>2</sup> .....	30.1	29.6	27.3	26.9	27.2	27.1	27.5
Grand total .....	29.7	29.9	27.8	27.4	27.6	27.5	28.4

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

**NOTES:** Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

**SOURCES:** Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93

**Table 14. Number of earned bachelor's degrees conferred by historically black colleges and universities (HBCUs) to black men, by field: 1985-93, selected years**

Page 1 of 1

Field	1985	1987	1989	1990	1991	1992	1993
Total, all black recipients							
Total science and engineering .....	7,926	7,886	7,685	7,830	8,448	9,375	10,099
Engineering .....	1,479	1,606	1,397	1,416	1,484	1,614	1,764
Sciences .....	6,447	6,280	6,288	6,414	6,964	7,761	8,335
Natural sciences .....	2,833	2,939	2,732	2,476	2,538	2,709	2,872
Physical science <sup>1</sup> .....	457	433	365	292	391	381	370
Mathematical science .....	376	399	374	342	380	374	444
Computer science .....	1,036	1,284	1,205	1,074	971	1,092	1,049
Biological science .....	806	723	700	658	696	749	883
Agricultural science .....	158	100	88	110	100	113	126
Social sciences .....	3,614	3,341	3,556	3,938	4,426	5,052	5,463
Social science .....	2,863	2,680	2,911	3,144	3,547	4,070	4,364
Psychology .....	751	661	645	794	879	982	1,099
Non-S&E <sup>2</sup> .....	14,105	13,073	13,287	13,807	14,822	16,194	17,383
Grand total .....	22,031	20,959	20,972	21,637	23,270	25,569	27,482
Black recipients from HBCUs							
Total science and engineering .....	2,240	2,337	2,112	2,086	2,211	2,450	2,761
Engineering .....	310	371	308	331	359	380	430
Sciences .....	1,930	1,966	1,804	1,755	1,852	2,070	2,331
Natural sciences .....	1,081	1,193	1,056	935	951	972	1,089
Physical science <sup>1</sup> .....	190	156	160	127	163	145	150
Mathematical science .....	184	213	179	134	164	150	196
Computer science .....	328	502	460	377	333	364	361
Biological science .....	299	264	206	231	231	238	317
Agricultural science .....	80	58	51	66	60	75	65
Social sciences .....	849	773	748	820	901	1,098	1,242
Social science .....	682	661	621	657	720	868	989
Psychology .....	167	112	127	163	181	230	253
Non-S&E <sup>2</sup> .....	4,168	3,833	3,532	3,668	3,945	4,316	4,798
Grand total .....	6,408	6,170	5,644	5,754	6,156	6,766	7,559
Percent from HBCUs							
Total science and engineering .....	28.3	29.6	27.5	26.6	26.2	26.1	27.3
Engineering .....	21.0	23.1	22.0	23.4	24.2	23.5	24.4
Sciences .....	29.9	31.3	28.7	27.4	26.6	26.7	28.0
Natural sciences .....	38.2	40.6	38.7	37.8	37.5	35.9	37.9
Physical science <sup>1</sup> .....	41.6	36.0	43.8	43.5	41.7	38.1	40.5
Mathematical science .....	48.9	53.4	47.9	39.2	43.2	40.1	44.1
Computer science .....	31.7	39.1	38.2	35.1	34.3	33.3	34.4
Biological science .....	37.1	36.5	29.4	35.1	33.2	31.8	35.9
Agricultural science .....	50.6	58.0	58.0	60.0	60.0	66.4	51.6
Social sciences .....	23.5	23.1	21.0	20.8	20.4	21.7	22.7
Social science .....	23.8	24.7	21.3	20.9	20.3	21.3	22.7
Psychology .....	22.2	16.9	19.7	20.5	20.6	23.4	23.0
Non-S&E <sup>2</sup> .....	29.5	29.3	26.6	26.6	26.6	26.7	27.6
Grand total .....	29.1	29.4	26.9	26.6	26.5	26.5	27.5

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

**NOTES:** Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

**SOURCES:** Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93

**Table 15. Number of earned bachelor's degrees conferred by historically black colleges and universities (HBCUs) to black women, by field: 1985-93, selected years**

Page 1 of 1

Field	1985	1987	1989	1990	1991	1992	1993
Total, all black recipients							
Total science and engineering .....	9,114	9,344	9,700	10,400	11,539	13,056	14,322
Engineering .....	560	709	670	656	745	748	813
Sciences .....	8,554	8,635	9,030	9,744	10,794	12,308	13,509
Natural sciences .....	3,176	3,585	3,273	3,306	3,296	3,692	4,100
Physical science <sup>1</sup> .....	373	390	332	358	362	435	466
Mathematical science .....	394	435	418	378	431	530	521
Computer science .....	1,107	1,536	1,252	1,173	1,026	998	1,164
Biological science .....	1,241	1,167	1,216	1,336	1,415	1,636	1,856
Agricultural science .....	61	57	55	61	62	93	93
Social sciences .....	5,378	5,050	5,757	6,438	7,498	8,616	9,409
Social science .....	3,462	3,260	3,659	4,082	4,689	5,419	5,890
Psychology .....	1,916	1,790	2,098	2,356	2,809	3,197	3,519
Non-S&E <sup>2</sup> .....	25,141	23,531	24,957	26,064	28,973	31,447	33,731
Grand total .....	34,255	32,875	34,657	36,464	40,512	44,503	48,053
Black recipients from HBCUs							
Total science and engineering .....	2,693	2,892	2,942	3,104	3,468	3,913	4,607
Engineering .....	128	186	166	193	230	214	270
Sciences .....	2,565	2,706	2,776	2,911	3,238	3,699	4,337
Natural sciences .....	1,288	1,557	1,457	1,418	1,412	1,627	1,932
Physical science <sup>1</sup> .....	173	190	160	169	195	231	240
Mathematical science .....	198	212	202	173	205	270	267
Computer science .....	412	685	588	522	415	416	543
Biological science .....	484	450	487	533	561	668	838
Agricultural science .....	21	20	20	21	36	42	44
Social sciences .....	1,277	1,149	1,319	1,493	1,826	2,072	2,405
Social science .....	899	796	896	994	1,166	1,333	1,518
Psychology .....	378	353	423	499	660	739	887
Non-S&E <sup>2</sup> .....	7,640	7,020	6,903	7,076	7,965	8,583	9,275
Grand total .....	10,333	9,912	9,845	10,180	11,433	12,496	13,882
Percent from HBCUs							
Total science and engineering .....	29.5	31.0	30.3	29.8	30.1	30.0	32.2
Engineering .....	22.9	26.2	24.8	29.4	30.9	28.6	33.2
Sciences .....	30.0	31.3	30.7	29.9	30.0	30.1	32.1
Natural sciences .....	40.6	43.4	44.5	42.9	42.8	44.1	47.1
Physical science <sup>1</sup> .....	46.4	48.7	48.2	47.2	53.9	53.1	51.5
Mathematical science .....	50.3	48.7	48.3	45.8	47.6	50.9	51.2
Computer science .....	37.2	44.6	47.0	44.5	40.4	41.7	46.6
Biological science .....	39.0	38.6	40.0	39.9	39.6	40.8	45.2
Agricultural science .....	34.4	35.1	36.4	34.4	58.1	45.2	47.3
Social sciences .....	23.7	22.8	22.9	23.2	24.4	24.0	25.6
Social science .....	26.0	24.4	24.5	24.4	24.9	24.6	25.8
Psychology .....	19.7	19.7	20.2	21.2	23.5	23.1	25.2
Non-S&E <sup>2</sup> .....	30.4	29.8	27.7	27.1	27.5	27.3	27.5
Grand total .....	30.2	30.2	28.4	27.9	28.2	28.1	28.9

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

**NOTES:** Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

**SOURCES:** Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93

**Table 16. Number of earned master's degrees conferred by historically black colleges and universities (HBCUs) to blacks, by field: 1985-93, selected years**

Page 1 of 1

Field	1985	1987	1989	1990	1991	1992	1993
Total, all black recipients							
Total science and engineering .....	1,742	1,784	1,652	1,847	2,090	2,356	2,554
Engineering .....	330	403	355	387	398	466	564
Sciences .....	1,412	1,381	1,297	1,460	1,692	1,890	1,990
Natural sciences .....	523	581	495	527	644	699	716
Physical science <sup>1</sup> .....	89	79	78	87	73	98	105
Mathematical science .....	53	73	59	70	100	77	98
Computer science .....	180	207	198	232	283	316	308
Biological science .....	151	167	124	110	137	149	135
Agricultural science .....	50	55	36	28	51	59	70
Social sciences .....	889	800	802	933	1,048	1,191	1,274
Social science .....	463	424	407	462	594	660	730
Psychology .....	426	376	395	471	454	531	544
Non-S&E <sup>2</sup> .....	12,181	11,347	11,748	12,582	13,720	15,000	16,282
Grand total .....	13,923	13,131	13,400	14,429	15,810	17,356	18,836
Black recipients from HBCUs							
Total science and engineering .....	284	318	314	339	391	426	453
Engineering .....	34	27	38	42	37	41	41
Sciences .....	250	291	276	297	354	385	412
Natural sciences .....	157	177	143	153	180	188	204
Physical science <sup>1</sup> .....	28	23	23	24	24	21	36
Mathematical science .....	16	17	13	17	21	17	23
Computer science .....	32	39	42	63	59	76	75
Biological science .....	58	67	47	37	46	47	38
Agricultural science .....	23	31	18	12	30	27	32
Social sciences .....	93	114	133	144	174	197	208
Social science .....	56	67	78	69	114	125	107
Psychology .....	37	47	55	75	60	72	101
Non-S&E <sup>2</sup> .....	2,316	2,115	2,047	2,016	2,127	2,199	2,324
Grand total .....	2,600	2,433	2,361	2,355	2,518	2,625	2,777
Percent from HBCUs							
Total science and engineering .....	16.3	17.8	19.0	18.4	18.7	18.1	17.7
Engineering .....	10.3	6.7	10.7	10.9	9.3	8.8	7.3
Sciences .....	17.7	21.1	21.3	20.3	20.9	20.4	20.7
Natural sciences .....	30.0	30.5	28.9	29.0	28.0	26.9	28.5
Physical science <sup>1</sup> .....	31.5	29.1	29.5	27.6	32.9	21.4	34.3
Mathematical science .....	30.2	23.3	22.0	24.3	21.0	22.1	23.5
Computer science .....	17.8	18.8	21.2	27.2	20.8	24.1	24.4
Biological science .....	38.4	40.1	37.9	33.6	33.6	31.5	28.1
Agricultural science .....	46.0	56.4	50.0	42.9	58.8	45.8	45.7
Social sciences .....	10.5	14.2	16.6	15.4	16.6	16.5	16.3
Social science .....	12.1	15.8	19.2	14.9	19.2	18.9	14.7
Psychology .....	8.7	12.5	13.9	15.9	13.2	13.6	18.6
Non-S&E <sup>2</sup> .....	19.0	18.6	17.4	16.0	15.5	14.7	14.3
Grand total .....	18.7	18.5	17.6	16.3	15.9	15.1	14.7

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

**NOTES:** Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

**SOURCES:** Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93

**Table 17. Number of earned master's degrees conferred by historically black colleges and universities (HBCUs) to black men, by field: 1985-93, selected years**

Page 1 of 1

Field	1985	1987	1989	1990	1991	1992	1993
Total, all black recipients							
Total science and engineering .....	973	990	878	950	1,028	1,166	1,253
Engineering .....	274	315	262	287	299	332	407
Sciences .....	699	675	616	663	729	834	846
Natural sciences .....	300	338	290	307	338	382	386
Physical science <sup>1</sup> .....	61	45	56	61	43	66	58
Mathematical science .....	34	45	32	37	53	44	48
Computer science .....	108	126	119	140	150	175	193
Biological science .....	67	80	59	51	58	61	47
Agricultural science .....	30	42	24	18	34	36	40
Social sciences .....	399	337	326	356	391	452	460
Social science .....	253	221	206	223	262	315	345
Psychology .....	146	116	120	133	129	137	115
Non-S&E <sup>2</sup> .....	4,210	3,860	4,046	4,187	4,562	4,582	5,187
Grand total .....	5,183	4,850	4,924	5,137	5,590	5,748	6,440
Black recipients from HBCUs							
Total science and engineering .....	141	155	154	164	172	195	191
Engineering .....	30	15	26	32	29	27	23
Sciences .....	111	140	128	132	143	168	168
Natural sciences .....	75	93	76	84	90	100	106
Physical science <sup>1</sup> .....	17	14	14	14	14	16	19
Mathematical science .....	10	10	8	9	7	7	9
Computer science .....	15	19	24	35	33	46	44
Biological science .....	22	28	19	17	15	15	11
Agricultural science .....	11	22	11	9	21	16	23
Social sciences .....	36	47	52	48	53	68	62
Social science .....	26	36	39	28	39	47	40
Psychology .....	10	11	13	20	14	21	22
Non-S&E <sup>2</sup> .....	739	620	572	581	594	583	630
Grand total .....	880	775	726	745	766	778	821
Percent from HBCUs							
Total science and engineering .....	14.5	15.7	17.5	17.3	16.7	16.7	15.2
Engineering .....	10.9	4.8	9.9	11.1	9.7	8.1	5.7
Sciences .....	15.9	20.7	20.8	19.9	19.6	20.1	19.9
Natural sciences .....	25.0	27.5	26.2	27.4	26.6	26.2	27.5
Physical science <sup>1</sup> .....	27.9	31.1	25.0	23.0	32.6	24.2	32.8
Mathematical science .....	29.4	22.2	25.0	24.3	13.2	15.9	18.8
Computer science .....	13.9	15.1	20.2	25.0	22.0	26.3	22.8
Biological science .....	32.8	35.0	32.2	33.3	25.9	24.6	23.4
Agricultural science .....	36.7	52.4	45.8	50.0	61.8	44.4	57.5
Social sciences .....	9.0	13.9	16.0	13.5	13.6	15.0	13.5
Social science .....	10.3	16.3	18.9	12.6	14.9	14.9	11.6
Psychology .....	6.8	9.5	10.8	15.0	10.9	15.3	19.1
Non-S&E <sup>2</sup> .....	17.6	16.1	14.1	13.9	13.0	12.7	12.1
Grand total .....	17.0	16.0	14.7	14.5	13.7	13.5	12.7

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

**NOTES:** Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

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**Table 18. Number of earned master's degrees conferred by historically black colleges and universities (HBCUs) to black women, by field: 1985-93, selected years**

Page 1 of 1

Field	1985	1987	1989	1990	1991	1992	1993
Total, all black recipients							
Total science and engineering .....	769	794	774	897	1,062	1,190	1,301
Engineering .....	56	88	93	100	99	134	157
Sciences .....	713	706	681	797	963	1,056	1,144
Natural sciences .....	223	243	205	220	306	317	330
Physical science <sup>1</sup> .....	28	34	22	26	30	32	47
Mathematical science .....	19	28	27	33	47	33	50
Computer science .....	72	81	79	92	133	141	115
Biological science .....	84	87	65	59	79	88	88
Agricultural science .....	20	13	12	10	17	23	30
Social sciences .....	490	463	476	577	657	739	814
Social science .....	210	203	201	239	332	345	385
Psychology .....	280	260	275	338	325	394	429
Non-S&E <sup>2</sup> .....	7,971	7,487	7,702	8,395	9,158	10,418	11,095
Grand total .....	8,740	8,281	8,476	9,292	10,220	11,608	12,396
Black recipients from HBCUs							
Total science and engineering .....	143	163	160	175	219	231	262
Engineering .....	4	12	12	10	8	14	18
Sciences .....	139	151	148	165	211	217	244
Natural sciences .....	82	84	67	69	90	88	98
Physical science <sup>1</sup> .....	11	9	9	10	10	5	17
Mathematical science .....	6	7	5	8	14	10	14
Computer science .....	17	20	18	28	26	30	31
Biological science .....	36	39	28	20	31	32	27
Agricultural science .....	12	9	7	3	9	11	9
Social sciences .....	57	67	81	96	121	129	146
Social science .....	30	31	39	41	75	78	67
Psychology .....	27	36	42	55	46	51	79
Non-S&E <sup>2</sup> .....	1,577	1,495	1,475	1,435	1,533	1,616	1,694
Grand total .....	1,720	1,658	1,635	1,610	1,752	1,847	1,956
Percent from HBCUs							
Total science and engineering .....	18.6	20.5	20.7	19.5	20.6	19.4	20.1
Engineering .....	7.1	13.6	12.9	10.0	8.1	10.4	11.5
Sciences .....	19.5	21.4	21.7	20.7	21.9	20.5	21.3
Natural sciences .....	36.8	34.6	32.7	31.4	29.4	27.8	29.7
Physical science <sup>1</sup> .....	39.3	26.5	40.9	38.5	33.3	15.6	36.2
Mathematical science .....	31.6	25.0	18.5	24.2	29.8	30.3	28.0
Computer science .....	23.6	24.7	22.8	30.4	19.5	21.3	27.0
Biological science .....	42.9	44.8	43.1	33.9	39.2	36.4	30.7
Agricultural science .....	60.0	69.2	58.3	30.0	52.9	47.8	30.0
Social sciences .....	11.6	14.5	17.0	16.6	18.4	17.5	17.9
Social science .....	14.3	15.3	19.4	17.2	22.6	22.6	17.4
Psychology .....	9.6	13.8	15.3	16.3	14.2	12.9	18.4
Non-S&E <sup>2</sup> .....	19.8	20.0	19.2	17.1	16.7	15.5	15.3
Grand total .....	19.7	20.0	19.3	17.3	17.1	15.9	15.8

1 In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

2 Non-S&E refers to non-science and non-engineering.

**NOTES:** Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

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**Table 19. Number of earned doctoral degrees conferred by historically black colleges and universities (HBCUs) to blacks, by field: 1985-93, selected years**

Page 1 of 1

Field	1985	1987	1989	1990	1991	1992	1993
Total, all black recipients							
Total science and engineering .....	375	320	376	379	459	406	472
Engineering .....	34	25	35	40	55	49	51
Sciences .....	341	295	341	339	404	357	421
Natural sciences .....	110	109	115	106	131	117	150
Physical science <sup>1</sup> .....	31	22	35	33	34	32	45
Mathematical science .....	7	11	8	4	11	4	8
Computer science .....	3	2	1	1	8	5	6
Biological science .....	53	60	57	51	60	61	74
Agricultural science .....	16	14	14	17	18	15	17
Social sciences .....	231	186	226	233	273	240	271
Social science .....	126	93	129	117	144	137	152
Psychology .....	105	93	97	116	129	103	119
Non-S&E <sup>2</sup> .....	670	593	597	680	706	705	815
Grand total .....	1,045	913	973	1,059	1,165	1,111	1,287
Black recipients from HBCUs							
Total science and engineering .....	38	35	35	37	48	42	59
Engineering .....	0	0	1	0	3	2	0
Sciences .....	38	35	34	37	45	40	59
Natural sciences .....	20	15	15	15	16	11	25
Physical science <sup>1</sup> .....	5	1	3	4	5	0	6
Mathematical science .....	0	0	3	0	0	0	0
Computer science .....	0	0	0	0	0	0	0
Biological science .....	15	14	9	11	11	11	18
Agricultural science .....	0	0	0	0	0	0	1
Social sciences .....	18	20	19	22	29	29	34
Social science .....	11	11	13	14	10	19	22
Psychology .....	7	9	6	8	19	10	12
Non-S&E <sup>2</sup> .....	40	43	52	106	63	62	75
Grand total .....	78	78	87	143	111	104	134
Percent from HBCUs							
Total science and engineering .....	10.1	10.9	9.3	9.8	10.5	10.3	12.5
Engineering .....	.0	.0	2.9	.0	5.5	4.1	.0
Sciences .....	11.1	11.9	10.0	10.9	11.1	11.2	14.0
Natural sciences .....	18.2	13.8	13.0	14.2	12.2	9.4	16.7
Physical science <sup>1</sup> .....	16.1	4.5	8.6	12.1	14.7	.0	13.3
Mathematical science .....	.0	.0	37.5	.0	.0	.0	.0
Computer science .....	.0	.0	.0	.0	.0	.0	.0
Biological science .....	28.3	23.3	15.8	21.6	18.3	18.0	24.3
Agricultural science .....	.0	.0	.0	.0	.0	.0	5.9
Social sciences .....	7.8	10.8	8.4	9.4	10.6	12.1	12.5
Social science .....	8.7	11.8	10.1	12.0	6.9	13.9	14.5
Psychology .....	6.7	9.7	6.2	6.9	14.7	9.7	10.1
Non-S&E <sup>2</sup> .....	6.0	7.3	8.7	15.6	8.9	8.8	9.2
Grand total .....	7.5	8.5	8.9	13.5	9.5	9.4	10.4

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**Table 20. Number of earned doctoral degrees conferred by historically black colleges and universities (HBCUs) to black men, by field: 1985-93, selected years**

Page 1 of 1

Field	1985	1987	1989	1990	1991	1992	1993
Total, all black recipients							
Total science and engineering .....	237	189	222	231	268	240	265
Engineering .....	30	24	32	34	47	43	40
Sciences .....	207	165	190	197	221	197	225
Natural sciences .....	81	73	78	74	85	82	99
Physical science <sup>1</sup> .....	24	18	27	24	28	25	35
Mathematical science .....	7	9	5	3	7	4	7
Computer science .....	3	1	0	1	4	4	2
Biological science .....	32	35	33	30	29	37	42
Agricultural science .....	15	10	13	16	17	12	13
Social sciences .....	126	92	112	123	136	115	126
Social science .....	84	58	76	79	92	87	82
Psychology .....	42	34	36	44	44	28	44
Non-S&E <sup>2</sup> .....	260	251	240	258	284	280	324
Grand total .....	497	440	462	489	552	520	589
Black recipients from HBCUs							
Total science and engineering .....	25	20	20	23	28	22	29
Engineering .....	0	0	1	0	3	2	0
Sciences .....	25	20	19	23	25	20	29
Natural sciences .....	14	8	9	8	11	4	14
Physical science <sup>1</sup> .....	5	1	2	2	4	0	5
Mathematical science .....	0	0	2	0	0	0	0
Computer science .....	0	0	0	0	0	0	0
Biological science .....	9	7	5	6	7	4	8
Agricultural science .....	0	0	0	0	0	0	1
Social sciences .....	11	12	10	15	14	16	15
Social science .....	7	9	9	11	8	14	12
Psychology .....	4	3	1	4	6	2	3
Non-S&E <sup>2</sup> .....	15	18	20	40	27	25	26
Grand total .....	40	38	40	63	55	47	55
Percent from HBCUs							
Total science and engineering .....	10.5	10.6	9.0	10.0	10.4	9.2	10.9
Engineering .....	.0	.0	3.1	.0	6.4	4.7	.0
Sciences .....	12.1	12.1	10.0	11.7	11.3	10.2	12.9
Natural sciences .....	17.3	11.0	11.5	10.8	12.9	4.9	14.1
Physical science <sup>1</sup> .....	20.8	5.6	7.4	8.3	14.3	.0	14.3
Mathematical science .....	0	0	40.0	0	0	0	0
Computer science .....	0	0	0	0	0	0	0
Biological science .....	28.1	20.0	15.2	20.0	24.1	10.8	19.0
Agricultural science .....	0	0	0	0	0	0	7.7
Social sciences .....	8.7	13.0	8.9	12.2	10.3	13.9	11.9
Social science .....	8.3	15.5	11.8	13.9	8.7	16.1	14.6
Psychology .....	9.5	8.8	2.8	9.1	13.6	7.1	6.8
Non-S&E <sup>2</sup> .....	5.8	7.2	8.3	15.5	9.5	8.9	8.0
Grand total .....	8.0	8.6	8.7	12.9	10.0	9.0	9.3

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**Table 21. Number of earned doctoral degrees conferred by historically black colleges and universities (HBCUs) to black women, by field: 1985-93, selected years**

Page 1 of 1

Field	1985	1987	1989	1990	1991	1992	1993
Total, all black recipients							
Total science and engineering .....	138	131	154	148	191	166	207
Engineering .....	4	1	3	6	8	6	11
Sciences .....	134	130	151	142	183	160	196
Natural sciences .....	29	36	37	32	46	35	51
Physical science <sup>1</sup> .....	7	4	8	9	6	7	10
Mathematical science .....	0	2	3	1	4	0	1
Computer science .....	0	1	1	0	4	1	4
Biological science .....	21	25	24	21	31	24	32
Agricultural science .....	1	4	1	1	1	3	4
Social sciences .....	105	94	114	110	137	125	145
Social science .....	42	35	53	38	52	50	70
Psychology .....	63	59	61	72	85	75	75
Non-S&E <sup>2</sup> .....	410	342	357	422	422	425	491
Grand total .....	548	473	511	570	613	591	698
Black recipients from HBCUs							
Total science and engineering .....	13	15	15	14	20	20	30
Engineering .....	0	0	0	0	0	0	0
Sciences .....	13	15	15	14	20	20	30
Natural sciences .....	6	7	6	7	5	7	11
Physical science <sup>1</sup> .....	0	0	1	2	1	0	1
Mathematical science .....	0	0	1	0	0	0	0
Computer science .....	0	0	0	0	0	0	0
Biological science .....	6	7	4	5	4	7	10
Agricultural science .....	0	0	0	0	0	0	0
Social sciences .....	7	8	9	7	15	13	19
Social science .....	4	2	4	3	2	5	10
Psychology .....	3	6	5	4	13	8	9
Non-S&E <sup>2</sup> .....	25	25	32	66	36	37	49
Grand total .....	38	40	47	80	56	57	79
Percent from HBCUs							
Total science and engineering .....	9.4	11.5	9.7	9.5	10.5	12.0	14.5
Engineering .....	.0	.0	.0	.0	.0	.0	.0
Sciences .....	9.7	11.5	9.9	9.9	10.9	12.5	15.3
Natural sciences .....	20.7	19.4	16.2	21.9	10.9	20.0	21.6
Physical science <sup>1</sup> .....	.0	.0	12.5	22.2	16.7	.0	10.0
Mathematical science .....	0	0	33.3	.0	.0	0	0
Computer science .....	0	0	.0	0	.0	0	0
Biological science .....	28.6	28.0	16.7	23.8	12.9	29.2	31.3
Agricultural science .....	.0	.0	.0	.0	.0	.0	.0
Social sciences .....	6.7	8.5	7.9	6.4	10.9	10.4	13.1
Social science .....	9.5	5.7	7.5	7.9	3.8	10.0	14.3
Psychology .....	4.8	10.2	8.2	5.6	15.3	10.7	12.0
Non-S&E <sup>2</sup> .....	6.1	7.3	9.0	15.6	8.5	8.7	10.0
Grand total .....	6.9	8.5	9.2	14.0	9.1	9.6	11.3

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**Table 22. Number of earned bachelor's degrees conferred by institutions in Puerto Rico to Hispanics, by field: 1985-93, selected years**

Page 1 of 1

Field	1985	1987	1989	1990	1991	1992	1993
Total, all Hispanic recipients							
Total science and engineering .....	12,031	12,419	13,327	13,918	15,351	17,391	18,442
Engineering .....	2,187	2,554	2,561	2,511	2,566	2,733	2,961
Sciences .....	9,844	9,865	10,766	11,407	12,785	14,658	15,481
Natural sciences .....	4,359	4,660	4,417	4,357	4,705	4,892	5,034
Physical science <sup>1</sup> .....	660	585	563	522	533	546	599
Mathematical science .....	335	321	373	413	480	482	470
Computer science .....	1,045	1,375	1,195	1,085	1,215	1,173	1,096
Biological science .....	2,069	2,146	2,090	2,119	2,264	2,477	2,652
Agricultural science .....	250	233	196	218	213	214	217
Social sciences .....	5,485	5,205	6,349	7,050	8,080	9,766	10,447
Social science .....	3,751	3,503	4,197	4,645	5,334	6,519	6,860
Psychology .....	1,734	1,702	2,152	2,405	2,746	3,247	3,587
Non-S&E <sup>2</sup> .....	23,835	25,113	27,400	29,162	32,945	34,869	38,550
Grand total .....	35,866	37,532	40,727	43,080	48,296	52,260	56,992
Hispanic recipients from institutions in Puerto Rico							
Total science and engineering .....	2,994	3,065	3,056	2,983	2,952	3,007	3,001
Engineering .....	412	584	651	626	554	686	697
Sciences .....	2,582	2,481	2,405	2,357	2,398	2,321	2,304
Natural sciences .....	1,442	1,556	1,479	1,447	1,446	1,339	1,300
Physical science <sup>1</sup> .....	244	173	184	184	154	172	172
Mathematical science .....	78	58	69	69	108	34	41
Computer science .....	219	337	326	261	327	296	254
Biological science .....	828	916	858	862	797	837	833
Agricultural science .....	73	72	42	71	60	0	0
Social sciences .....	1,140	925	926	910	952	982	1,004
Social science .....	737	576	501	495	523	496	508
Psychology .....	403	349	425	415	429	486	496
Non-S&E <sup>2</sup> .....	7,483	8,776	9,038	9,074	9,421	9,557	10,137
Grand total .....	10,477	11,841	12,094	12,057	12,373	12,564	13,138
Percent from institutions in Puerto Rico							
Total science and engineering .....	24.9	24.7	22.9	21.4	19.2	17.3	16.3
Engineering .....	18.8	22.9	25.4	24.9	21.6	25.1	23.5
Sciences .....	26.2	25.1	22.3	20.7	18.8	15.8	14.9
Natural sciences .....	33.1	33.4	33.5	33.2	30.7	27.4	25.8
Physical science <sup>1</sup> .....	37.0	29.6	32.7	35.2	28.9	31.5	28.7
Mathematical science .....	23.3	18.1	18.5	16.7	22.5	7.1	8.7
Computer science .....	21.0	24.5	27.3	24.1	26.9	25.2	23.2
Biological science .....	40.0	42.7	41.1	40.7	35.2	33.8	31.4
Agricultural science .....	29.2	30.9	21.4	32.6	28.2	.0	.0
Social sciences .....	20.8	17.8	14.6	12.9	11.8	10.1	9.6
Social science .....	19.6	16.4	11.9	10.7	9.8	7.6	7.4
Psychology .....	23.2	20.5	19.7	17.3	15.6	15.0	13.8
Non-S&E <sup>2</sup> .....	31.4	34.9	33.0	31.1	28.6	27.4	26.3
Grand total .....	29.2	31.5	29.7	28.0	25.6	24.0	23.1

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

**NOTES:** Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

**SOURCES:** Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93

**Table 23. Number of earned bachelor's degrees conferred by institutions in Puerto Rico to Hispanic men, by field: 1985-93, selected years**

Page 1 of 1

Field	1985	1987	1989	1990	1991	1992	1993
Total, all Hispanic recipients							
Total science and engineering .....	6,751	6,974	7,318	7,434	7,888	8,730	9,160
Engineering .....	1,863	2,100	2,100	2,035	2,039	2,187	2,355
Sciences .....	4,888	4,874	5,218	5,399	5,849	6,543	6,805
Natural sciences .....	2,380	2,516	2,432	2,328	2,458	2,497	2,608
Physical science <sup>1</sup> .....	441	377	362	311	318	326	361
Mathematical science .....	189	196	224	249	259	279	273
Computer science .....	582	766	750	669	738	724	700
Biological science .....	997	1,018	965	955	1,019	1,043	1,144
Agricultural science .....	171	159	131	144	124	125	130
Social sciences .....	2,508	2,358	2,786	3,071	3,391	4,046	4,197
Social science .....	1,966	1,845	2,153	2,384	2,634	3,220	3,269
Psychology .....	542	513	633	687	757	826	928
Non-S&E <sup>2</sup> .....	8,923	9,070	10,117	10,527	12,238	12,667	13,955
Grand total .....	15,674	16,044	17,435	17,961	20,126	21,397	23,115
Hispanic recipients from institutions in Puerto Rico							
Total science and engineering .....	1,457	1,524	1,559	1,462	1,365	1,362	1,339
Engineering .....	362	453	525	481	398	498	511
Sciences .....	1,095	1,071	1,034	981	967	864	828
Natural sciences .....	644	730	671	626	612	520	496
Physical science <sup>1</sup> .....	132	98	91	90	70	78	70
Mathematical science .....	41	30	39	47	50	20	24
Computer science .....	98	172	197	143	170	159	147
Biological science .....	316	377	322	302	293	263	255
Agricultural science .....	57	53	22	44	29	0	0
Social sciences .....	451	341	363	355	355	344	332
Social science .....	341	272	257	252	245	243	211
Psychology .....	110	69	106	103	110	101	121
Non-S&E <sup>2</sup> .....	2,255	2,492	2,710	2,689	3,073	2,746	2,869
Grand total .....	3,712	4,016	4,269	4,151	4,438	4,108	4,208
Percent from institutions in Puerto Rico							
Total science and engineering .....	21.6	21.9	21.3	19.7	17.3	15.6	14.6
Engineering .....	19.4	21.6	25.0	23.6	19.5	22.8	21.7
Sciences .....	22.4	22.0	19.8	18.2	16.5	13.2	12.2
Natural sciences .....	27.1	29.0	27.6	26.9	24.9	20.8	19.0
Physical science <sup>1</sup> .....	29.9	26.0	25.1	28.9	22.0	23.9	19.4
Mathematical science .....	21.7	15.3	17.4	18.9	19.3	7.2	8.8
Computer science .....	16.8	22.5	26.3	21.4	23.0	22.0	21.0
Biological science .....	31.7	37.0	33.4	31.6	28.8	25.2	22.3
Agricultural science .....	33.3	33.3	16.8	30.6	23.4	.0	.0
Social sciences .....	18.0	14.5	13.0	11.6	10.5	8.5	7.9
Social science .....	17.3	14.7	11.9	10.6	9.3	7.5	6.5
Psychology .....	20.3	13.5	16.7	15.0	14.5	12.2	13.0
Non-S&E <sup>2</sup> .....	25.3	27.5	26.8	25.5	25.1	21.7	20.6
Grand total .....	23.7	25.0	24.5	23.1	22.1	19.2	18.2

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

**NOTES:** Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

**SOURCES:** Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93

**Table 24. Number of earned bachelor's degrees conferred by institutions in Puerto Rico to Hispanic women, by field: 1985-93, selected years**

Page 1 of 1

Field	1985	1987	1989	1990	1991	1992	1993
Total, all Hispanic recipients							
Total science and engineering .....	5,280	5,445	6,009	6,484	7,463	8,661	9,282
Engineering .....	324	454	461	476	527	546	606
Sciences .....	4,956	4,991	5,548	6,008	6,936	8,115	8,676
Natural sciences .....	1,979	2,144	1,985	2,029	2,247	2,395	2,426
Physical science <sup>1</sup> .....	219	208	201	211	215	220	238
Mathematical science .....	146	125	149	164	221	203	197
Computer science .....	463	609	445	416	477	449	396
Biological science .....	1,072	1,128	1,125	1,164	1,245	1,434	1,508
Agricultural science .....	79	74	65	74	89	89	87
Social sciences .....	2,977	2,847	3,563	3,979	4,689	5,720	6,250
Social science .....	1,785	1,658	2,044	2,261	2,700	3,299	3,591
Psychology .....	1,192	1,189	1,519	1,718	1,989	2,421	2,659
Non-S&E <sup>2</sup> .....	14,912	16,043	17,283	18,635	20,707	22,202	24,595
Grand total .....	20,192	21,488	23,292	25,119	28,170	30,863	33,877
Hispanic recipients from institutions in Puerto Rico							
Total science and engineering .....	1,537	1,541	1,497	1,521	1,587	1,645	1,662
Engineering .....	50	131	126	145	156	188	186
Sciences .....	1,487	1,410	1,371	1,376	1,431	1,457	1,476
Natural sciences .....	798	826	808	821	834	819	804
Physical science <sup>1</sup> .....	112	75	93	94	84	94	102
Mathematical science .....	37	28	30	22	58	14	17
Computer science .....	121	165	129	118	157	137	107
Biological science .....	512	539	536	560	504	574	578
Agricultural science .....	16	19	20	27	31	0	0
Social sciences .....	689	584	563	555	597	638	672
Social science .....	396	304	244	243	278	253	297
Psychology .....	293	280	319	312	319	385	375
Non-S&E <sup>2</sup> .....	5,228	6,284	6,328	6,385	6,348	6,811	7,268
Grand total .....	6,765	7,825	7,825	7,906	7,935	8,456	8,930
Percent from institutions in Puerto Rico							
Total science and engineering .....	29.1	28.3	24.9	23.5	21.3	19.0	17.9
Engineering .....	15.4	28.9	27.3	30.5	29.6	34.4	30.7
Sciences .....	30.0	28.3	24.7	22.9	20.6	18.0	17.0
Natural sciences .....	40.3	38.5	40.7	40.5	37.1	34.2	33.1
Physical science <sup>1</sup> .....	51.1	36.1	46.3	44.5	39.1	42.7	42.9
Mathematical science .....	25.3	22.4	20.1	13.4	26.2	6.9	8.6
Computer science .....	26.1	27.1	29.0	28.4	32.9	30.5	27.0
Biological science .....	47.8	47.8	47.6	48.1	40.5	40.0	38.3
Agricultural science .....	20.3	25.7	30.8	36.5	34.8	.0	.0
Social sciences .....	23.1	20.5	15.8	13.9	12.7	11.2	10.8
Social science .....	22.2	18.3	11.9	10.7	10.3	7.7	8.3
Psychology .....	24.6	23.5	21.0	18.2	16.0	15.9	14.1
Non-S&E <sup>2</sup> .....	35.1	39.2	36.6	34.3	30.7	30.7	29.6
Grand total .....	33.5	36.4	33.6	31.5	28.2	27.4	26.4

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

**NOTES:** Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

**SOURCES:** Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93

**Table 25. Number of earned master's degrees conferred by institutions in Puerto Rico to Hispanics, by field: 1985-93, selected years**

Page 1 of 1

Field	1985	1987	1989	1990	1991	1992	1993
Total, all Hispanic recipients							
Total science and engineering .....	1,514	1,584	1,585	1,587	1,736	1,806	2,092
Engineering .....	346	512	468	446	468	488	581
Sciences .....	1,168	1,072	1,117	1,141	1,268	1,318	1,511
Natural sciences .....	481	493	444	431	494	503	574
Physical science <sup>1</sup> .....	127	122	92	98	96	93	114
Mathematical science .....	55	60	34	51	85	66	78
Computer science <sup>1</sup> .....	94	123	144	118	128	149	162
Biological science .....	139	126	126	120	136	146	151
Agricultural science .....	66	62	48	44	49	49	69
Social sciences .....	687	579	673	710	774	815	937
Social science .....	343	308	313	341	383	396	474
Psychology .....	344	271	360	369	391	419	463
Non-S&E <sup>2</sup> .....	6,210	6,180	6,538	6,899	7,929	8,427	9,254
Grand total .....	7,724	7,764	8,123	8,486	9,665	10,233	11,346
Hispanic recipients from institutions in Puerto Rico							
Total science and engineering .....	169	184	214	207	214	140	160
Engineering .....	9	11	22	32	23	0	1
Sciences .....	160	173	192	175	191	140	159
Natural sciences .....	72	99	62	65	83	27	47
Physical science <sup>1</sup> .....	20	13	19	21	16	9	12
Mathematical science .....	6	8	6	7	17	7	14
Computer science .....	0	0	7	0	0	0	4
Biological science .....	30	44	17	30	39	11	17
Agricultural science .....	16	34	13	7	11	0	0
Social sciences .....	88	74	130	110	108	113	112
Social science .....	17	33	25	25	31	32	30
Psychology .....	71	41	105	85	77	81	82
Non-S&E <sup>2</sup> .....	696	936	1,033	855	1,009	1,084	1,081
Grand total .....	865	1,120	1,247	1,062	1,223	1,224	1,241
Percent from institutions in Puerto Rico							
Total science and engineering .....	11.2	11.6	13.5	13.0	12.3	7.8	7.6
Engineering .....	2.6	2.1	4.7	7.2	4.9	.0	.2
Sciences .....	13.7	16.1	17.2	15.3	15.1	10.6	10.5
Natural sciences .....	15.0	20.1	14.0	15.1	16.8	5.4	8.2
Physical science <sup>1</sup> .....	15.7	10.7	20.7	21.4	16.7	9.7	10.5
Mathematical science .....	10.9	13.3	17.6	13.7	20.0	10.6	17.9
Computer science .....	.0	.0	4.9	.0	.0	.0	2.5
Biological science .....	21.6	34.9	13.5	25.0	28.7	7.5	11.3
Agricultural science .....	24.2	54.8	27.1	15.9	22.4	.0	.0
Social sciences .....	12.8	12.8	19.3	15.5	14.0	13.9	12.0
Social science .....	5.0	10.7	8.0	7.3	8.1	8.1	6.3
Psychology .....	20.6	15.1	29.2	23.0	19.7	19.3	17.7
Non-S&E <sup>2</sup> .....	11.2	15.1	15.8	12.4	12.7	12.9	11.7
Grand total .....	11.2	14.4	15.4	12.5	12.7	12.0	10.9

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

**NOTES:** Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

**SOURCES:** Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93

**Table 26. Number of earned master's degrees conferred by institutions in Puerto Rico to Hispanic men, by field: 1985-93, selected years**

Page 1 of 1

Field	1985	1987	1989	1990	1991	1992	1993
Total, all Hispanic recipients							
Total science and engineering .....	939	1,045	970	959	992	1,066	1,255
Engineering .....	304	444	394	373	378	408	480
Sciences .....	635	601	576	586	614	658	775
Natural sciences .....	307	318	282	275	294	309	341
Physical science <sup>1</sup> .....	95	88	65	63	73	64	76
Mathematical science .....	31	41	21	33	52	47	50
Computer science .....	65	91	100	93	84	98	104
Biological science .....	62	53	62	61	54	69	76
Agricultural science .....	54	45	34	25	31	31	35
Social sciences .....	328	283	294	311	320	349	434
Social science .....	195	187	176	178	196	218	282
Psychology .....	133	96	118	133	124	131	152
Non-S&E <sup>2</sup> .....	2,398	2,465	2,620	2,747	3,115	3,299	3,602
Grand total .....	3,337	3,510	3,590	3,706	4,107	4,365	4,857
Hispanic recipients from institutions in Puerto Rico							
Total science and engineering .....	75	93	103	103	80	48	56
Engineering .....	8	11	21	26	15	0	1
Sciences .....	67	82	82	77	65	48	55
Natural sciences .....	40	54	35	33	39	12	23
Physical science <sup>1</sup> .....	8	8	14	11	9	4	6
Mathematical science .....	3	4	2	3	9	4	11
Computer science .....	0	0	4	0	0	0	1
Biological science .....	14	15	5	14	13	4	5
Agricultural science .....	15	27	10	5	8	0	0
Social sciences .....	27	28	47	44	26	36	32
Social science .....	8	18	16	10	8	14	16
Psychology .....	19	10	31	34	18	22	16
Non-S&E <sup>2</sup> .....	208	276	313	262	306	350	346
Grand total .....	283	369	416	365	386	398	402
Percent from institutions in Puerto Rico							
Total science and engineering .....	8.0	8.9	10.6	10.7	8.1	4.5	4.5
Engineering .....	2.6	2.5	5.3	7.0	4.0	.0	.2
Sciences .....	10.6	13.6	14.2	13.1	10.6	7.3	7.1
Natural sciences .....	13.0	17.0	12.4	12.0	13.3	3.9	6.7
Physical science <sup>1</sup> .....	8.4	9.1	21.5	17.5	12.3	6.3	7.9
Mathematical science .....	9.7	9.8	9.5	9.1	17.3	8.5	22.0
Computer science .....	.0	.0	4.0	.0	.0	.0	1.0
Biological science .....	22.6	28.3	8.1	23.0	24.1	5.8	6.6
Agricultural science .....	27.8	60.0	29.4	20.0	25.8	.0	.0
Social sciences .....	8.2	9.9	16.0	14.1	8.1	10.3	7.4
Social science .....	4.1	9.6	9.1	5.6	4.1	6.4	5.7
Psychology .....	14.3	10.4	26.3	25.6	14.5	16.8	10.5
Non-S&E <sup>2</sup> .....	8.7	11.2	11.9	9.5	9.8	10.6	9.6
Grand total .....	8.5	10.5	11.6	9.8	9.4	9.1	8.3

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

**NOTES:** Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

**SOURCES:** Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93

**Table 27. Number of earned master's degrees conferred by institutions in Puerto Rico to Hispanic women, by field: 1985-93, selected years**

Page 1 of 1

Field	1985	1987	1989	1990	1991	1992	1993
Total, all Hispanic recipients							
Total science and engineering .....	575	539	615	628	744	740	837
Engineering .....	42	68	74	73	90	80	101
Sciences .....	533	471	541	555	654	660	736
Natural sciences .....	174	175	162	156	200	194	233
Physical science <sup>1</sup> .....	32	34	27	35	23	29	38
Mathematical science .....	24	19	13	18	33	19	28
Computer science .....	29	32	44	25	44	51	58
Biological science .....	77	73	64	59	82	77	75
Agricultural science .....	12	17	14	19	18	18	34
Social sciences .....	359	296	379	399	454	466	503
Social science .....	148	121	137	163	187	178	192
Psychology .....	211	175	242	236	267	288	311
Non-S&E <sup>2</sup> .....	3,812	3,715	3,918	4,152	4,814	5,128	5,652
Grand total .....	4,387	4,254	4,533	4,780	5,558	5,868	6,489
Hispanic recipients from institutions in Puerto Rico							
Total science and engineering .....	94	91	111	104	134	92	104
Engineering .....	1	0	1	6	8	0	0
Sciences .....	93	91	110	98	126	92	104
Natural sciences .....	32	45	27	32	44	15	24
Physical science <sup>1</sup> .....	12	5	5	10	7	5	6
Mathematical science .....	3	4	4	4	8	3	3
Computer science .....	0	0	3	0	0	0	3
Biological science .....	16	29	12	16	26	7	12
Agricultural science .....	1	7	3	2	3	0	0
Social sciences .....	61	46	83	66	82	77	80
Social science .....	9	15	9	15	23	18	14
Psychology .....	52	31	74	51	59	59	66
Non-S&E <sup>2</sup> .....	488	660	720	593	703	734	735
Grand total .....	582	751	831	697	837	826	839
Percent from institutions in Puerto Rico							
Total science and engineering .....	16.3	16.9	18.0	16.6	18.0	12.4	12.4
Engineering .....	2.4	.0	1.4	8.2	8.9	.0	.0
Sciences .....	17.4	19.3	20.3	17.7	19.3	13.9	14.1
Natural sciences .....	18.4	25.7	16.7	20.5	22.0	7.7	10.3
Physical science <sup>1</sup> .....	37.5	14.7	18.5	28.6	30.4	17.2	15.8
Mathematical science .....	12.5	21.1	30.8	22.2	24.2	15.8	10.7
Computer science .....	.0	0	6.8	.0	.0	.0	5.2
Biological science .....	20.8	39.7	18.8	27.1	31.7	9.1	16.0
Agricultural science .....	8.3	41.2	21.4	10.5	16.7	.0	.0
Social sciences .....	17.0	15.5	21.9	16.5	18.1	16.5	15.9
Social science .....	6.1	12.4	6.6	9.2	12.3	10.1	7.3
Psychology .....	24.6	17.7	30.6	21.6	22.1	20.5	21.2
Non-S&E <sup>2</sup> .....	12.8	17.8	18.4	14.3	14.6	14.3	13.0
Grand total .....	13.3	17.7	18.3	14.6	15.1	14.1	12.9

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

**NOTES:** Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

**SOURCES:** Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93

**Table 28. Number of earned doctoral degrees conferred by institutions in Puerto Rico to Hispanics, by field: 1985-93, selected years**

Page 1 of 1

Field	1985	1987	1989	1990	1991	1992	1993
Total, all Hispanic recipients							
Total science and engineering .....	297	363	385	471	496	522	546
Engineering .....	22	35	47	54	61	71	65
Sciences .....	275	328	338	417	435	451	481
Natural sciences .....	125	157	174	214	215	232	251
Physical science <sup>1</sup> .....	36	62	69	86	81	89	94
Mathematical science .....	12	11	11	11	9	12	16
Computer science .....	6	4	4	5	12	8	7
Biological science .....	59	64	71	89	97	102	114
Agricultural science .....	12	16	19	23	16	21	20
Social sciences .....	150	171	164	203	220	219	230
Social science .....	81	76	71	94	98	83	97
Psychology .....	69	95	93	109	122	136	133
Non-S&E <sup>2</sup> .....	343	353	314	371	377	397	430
Grand total .....	640	716	699	842	873	919	976
Hispanic recipients from institutions in Puerto Rico							
Total science and engineering .....	5	6	12	18	12	29	16
Engineering .....	0	0	0	0	0	0	0
Sciences .....	5	6	12	18	12	29	16
Natural sciences .....	4	5	5	8	5	5	8
Physical science <sup>1</sup> .....	3	4	4	6	3	4	6
Mathematical science .....	0	0	0	0	0	0	0
Computer science .....	0	0	0	0	0	0	0
Biological science .....	1	1	1	2	2	1	2
Agricultural science .....	0	0	0	0	0	0	0
Social sciences .....	1	1	7	10	7	24	8
Social science .....	1	1	1	0	1	5	0
Psychology .....	0	0	6	10	6	19	8
Non-S&E <sup>2</sup> .....	4	7	5	16	13	24	24
Grand total .....	9	13	17	34	25	53	40
Percent from institutions in Puerto Rico							
Total science and engineering .....	1.7	1.7	3.1	3.8	2.4	5.6	2.9
Engineering .....	.0	.0	.0	.0	.0	.0	.0
Sciences .....	1.8	1.8	3.6	4.3	2.8	6.4	3.3
Natural sciences .....	3.2	3.2	2.9	3.7	2.3	2.2	3.2
Physical science <sup>1</sup> .....	8.3	6.5	5.8	7.0	3.7	4.5	6.4
Mathematical science .....	.0	.0	.0	.0	.0	.0	.0
Computer science .....	.0	.0	.0	.0	.0	.0	.0
Biological science .....	1.7	1.6	1.4	2.2	2.1	1.0	1.8
Agricultural science .....	.0	.0	.0	.0	.0	.0	.0
Social sciences .....	.7	.6	4.3	4.9	3.2	11.0	3.5
Social science .....	1.2	1.3	1.4	0	1.0	6.0	0
Psychology .....	.0	.0	6.5	9.2	4.9	14.0	6.0
Non-S&E <sup>2</sup> .....	1.2	2.0	1.6	4.3	3.4	6.0	5.6
Grand total .....	1.4	1.8	2.4	4.0	2.9	5.8	4.1

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

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**Table 29. Number of earned doctoral degrees conferred by institutions in Puerto Rico to Hispanic men, by field: 1985-93, selected years**

Page 1 of 1

Field	1985	1987	1989	1990	1991	1992	1993
Total, all Hispanic recipients							
Total science and engineering .....	183	222	230	292	309	313	319
Engineering .....	22	30	39	45	51	56	53
Sciences .....	161	192	191	247	258	257	266
Natural sciences .....	83	109	122	140	154	154	162
Physical science <sup>1</sup> .....	28	44	48	56	68	63	70
Mathematical science .....	7	9	7	7	5	9	14
Computer science .....	4	4	1	4	11	7	6
Biological science .....	36	40	50	56	57	59	57
Agricultural science .....	8	12	16	17	13	16	15
Social sciences .....	78	83	69	107	104	103	104
Social science .....	50	51	39	55	52	47	59
Psychology .....	28	32	30	52	52	56	45
Non-S&E <sup>2</sup> .....	169	167	149	159	153	175	197
Grand total .....	352	389	379	451	462	488	516
Hispanic recipients from institutions in Puerto Rico							
Total science and engineering .....	1	4	3	6	3	12	7
Engineering .....	0	0	0	0	0	0	0
Sciences .....	1	4	3	6	3	12	7
Natural sciences .....	1	4	2	2	2	4	4
Physical science <sup>1</sup> .....	0	3	2	1	2	3	2
Mathematical science .....	0	0	0	0	0	0	0
Computer science .....	0	0	0	0	0	0	0
Biological science .....	1	1	0	1	0	1	2
Agricultural science .....	0	0	0	0	0	0	0
Social sciences .....	0	0	1	4	1	8	3
Social science .....	0	0	0	0	0	0	0
Psychology .....	0	0	1	4	1	8	3
Non-S&E <sup>2</sup> .....	0	2	2	3	4	3	5
Grand total .....	1	6	5	9	7	15	12
Percent from institutions in Puerto Rico							
Total science and engineering .....	0.5	1.8	1.3	2.1	1.0	3.8	2.2
Engineering .....	.0	.0	.0	.0	.0	.0	.0
Sciences .....	.6	2.1	1.6	2.4	1.2	4.7	2.6
Natural sciences .....	1.2	3.7	1.6	1.4	1.3	2.6	2.5
Physical science <sup>1</sup> .....	0	6.8	4.2	1.8	2.9	4.8	2.9
Mathematical science .....	0	0	0	0	0	0	0
Computer science .....	0	0	0	0	0	0	0
Biological science .....	2.8	2.5	0	1.8	0	1.7	3.5
Agricultural science .....	0	0	0	0	0	0	0
Social sciences .....	0	0	1.4	3.7	1.0	7.8	2.9
Social science .....	0	0	0	0	0	0	0
Psychology .....	0	0	3.3	7.7	1.9	14.3	6.7
Non-S&E <sup>2</sup> .....	.0	1.2	1.3	1.9	2.6	1.7	2.5
Grand total .....	.3	1.5	1.3	2.0	1.5	3.1	2.3

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**Table 30. Number of earned doctoral degrees conferred by institutions in Puerto Rico to Hispanic women, by field: 1985-93, selected years**

Page 1 of 1

Field	1985	1987	1989	1990	1991	1992	1993
Total, all Hispanic recipients							
Total science and engineering .....	114	141	155	179	187	209	227
Engineering .....	0	5	8	9	10	15	12
Sciences .....	114	136	147	170	177	194	215
Natural sciences .....	42	48	52	74	61	78	89
Physical science <sup>1</sup> .....	8	18	21	30	13	26	24
Mathematical science .....	5	2	4	4	4	3	2
Computer science .....	2	0	3	1	1	1	1
Biological science .....	23	24	21	33	40	43	57
Agricultural science .....	4	4	3	6	3	5	5
Social sciences .....	72	88	95	96	116	116	126
Social science .....	31	25	32	39	46	36	38
Psychology .....	41	63	63	57	70	80	88
Non-S&E <sup>2</sup> .....	174	186	165	212	224	222	233
Grand total .....	288	327	320	391	411	431	460
Hispanic recipients from institutions in Puerto Rico							
Total science and engineering .....	4	2	9	12	9	17	9
Engineering .....	0	0	0	0	0	0	0
Sciences .....	4	2	9	12	9	17	9
Natural sciences .....	3	1	3	6	3	1	4
Physical science <sup>1</sup> .....	3	1	2	5	1	1	4
Mathematical science .....	0	0	0	0	0	0	0
Computer science .....	0	0	0	0	0	0	0
Biological science .....	0	0	1	1	2	0	0
Agricultural science .....	0	0	0	0	0	0	0
Social sciences .....	1	1	6	6	6	16	5
Social science .....	1	1	1	0	1	5	0
Psychology .....	0	0	5	6	5	11	5
Non-S&E <sup>2</sup> .....	4	5	3	13	9	21	19
Grand total .....	8	7	12	25	18	38	28
Percent from institutions in Puerto Rico							
Total science and engineering .....	3.5	1.4	5.8	6.7	4.8	8.1	4.0
Engineering .....	0	.0	.0	.0	.0	.0	.0
Sciences .....	3.5	1.5	6.1	7.1	5.1	8.8	4.2
Natural sciences .....	7.1	2.1	5.8	8.1	4.9	1.3	4.5
Physical science <sup>1</sup> .....	37.5	5.6	9.5	16.7	7.7	3.8	16.7
Mathematical science .....	.0	.0	.0	.0	.0	.0	.0
Computer science .....	.0	0	.0	.0	.0	.0	.0
Biological science .....	.0	.0	4.8	3.0	5.0	.0	.0
Agricultural science .....	.0	.0	.0	.0	.0	.0	.0
Social sciences .....	1.4	1.1	6.3	6.3	5.2	13.8	4.0
Social science .....	3.2	4.0	3.1	.0	2.2	13.9	0
Psychology .....	.0	.0	7.9	10.5	7.1	13.7	5.7
Non-S&E <sup>2</sup> .....	2.3	2.7	1.8	6.1	4.0	9.5	8.2
Grand total .....	2.8	2.1	3.7	6.4	4.4	8.8	6.1

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**Table 31. Number of earned bachelor's degrees awarded in engineering technologies,  
by race/ethnicity and sex of recipient: 1985-93**

Page 1 of 1

Citizenship and race/ethnicity	1985	1987	1989	1990	1991	1992	1993
Total							
Total, all recipients .....	20,533	20,577	20,098	19,150	18,294	17,113	16,987
U.S. citizens and permanent residents, total <sup>1</sup> .....	19,120	19,359	18,942	18,059	17,080	16,138	16,109
White, non-Hispanics .....	16,673	16,541	16,156	15,251	14,279	13,286	13,245
Asians .....	542	807	839	755	768	778	768
Underrepresented minorities, total .....	1,905	2,011	1,947	2,053	2,033	2,074	2,096
Black, non-Hispanics .....	1,277	1,269	1,208	1,200	1,227	1,239	1,132
Hispanics .....	525	664	634	784	731	747	853
American Indians or Alaskan Natives .....	103	78	105	69	75	88	111
Nonresident aliens <sup>2</sup> .....	1,277	986	659	727	712	516	441
Unknown race/ethnicity or citizenship .....	136	232	497	364	502	459	437
Men							
Total, all recipients .....	18,278	18,429	17,999	17,113	16,329	15,309	15,089
U.S. citizens and permanent residents, total <sup>1</sup> .....	16,979	17,301	16,922	16,091	15,211	14,418	14,280
White, non-Hispanics .....	14,911	14,933	14,578	13,679	12,819	12,069	11,908
Asians .....	492	727	743	679	700	690	678
Underrepresented minorities, total .....	1,576	1,641	1,601	1,733	1,692	1,659	1,694
Black, non-Hispanics .....	1,009	983	941	953	968	949	892
Hispanics .....	475	594	567	722	655	629	710
American Indians or Alaskan Natives .....	92	64	93	58	69	81	92
Nonresident aliens <sup>2</sup> .....	1,194	920	616	682	669	468	402
Unknown race/ethnicity or citizenship .....	105	208	461	340	449	423	407
Women							
Total, all recipients .....	2,255	2,148	2,099	2,037	1,965	1,804	1,898
U.S. citizens and permanent residents, total <sup>1</sup> .....	2,141	2,058	2,020	1,968	1,869	1,720	1,829
White, non-Hispanics .....	1,762	1,608	1,578	1,572	1,460	1,217	1,337
Asians .....	50	80	96	76	68	88	90
Underrepresented minorities, total .....	329	370	346	320	341	415	402
Black, non-Hispanics .....	268	286	267	247	259	290	240
Hispanics .....	50	70	67	62	76	118	143
American Indians or Alaskan Natives .....	11	14	12	11	6	7	19
Nonresident aliens <sup>2</sup> .....	83	66	43	45	43	48	39
Unknown race/ethnicity or citizenship .....	31	24	36	24	53	36	30

<sup>1</sup> Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

<sup>2</sup> Nonresident aliens include foreign citizens on temporary visas only.

**NOTES:** Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Engineering technologies are a summary of instructional programs that prepare individuals to support and assist engineering and related professionals or to independently provide such services. Programs stress specialized, practical knowledge related to the mathematical, scientific, or technical aspects of engineering and related sciences.

**SOURCES:** Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93

**Table 32. Number of earned master's degrees awarded in engineering technologies,  
by race/ethnicity and sex of recipient: 1985-93**

Page 1 of 1

Citizenship and race/ethnicity	1985	1987	1989	1990	1991	1992	1993
Total							
Total, all recipients .....	816	883	1,135	1,194	1,188	1,278	1,555
U.S. citizens and permanent residents, total <sup>1</sup> .....	596	712	909	960	959	967	1,175
White, non-Hispanics .....	526	581	802	823	830	817	1,041
Asians .....	25	46	40	79	60	58	40
Underrepresented minorities, total .....	45	85	67	58	69	92	94
Black, non-Hispanics .....	37	42	55	44	47	64	61
Hispanics .....	6	17	10	9	19	23	25
American Indians or Alaskan Natives	2	26	2	5	3	5	8
Nonresident aliens <sup>2</sup> .....	124	127	131	162	172	215	279
Unknown race/ethnicity or citizenship .....	96	44	95	72	57	96	101
Men							
Total, all recipients .....	674	678	892	888	888	971	1,172
U.S. citizens and permanent residents, total <sup>1</sup> .....	481	549	715	690	705	730	868
White, non-Hispanics .....	423	436	631	607	619	619	783
Asians .....	23	41	36	40	39	45	28
Underrepresented minorities, total .....	35	72	48	43	47	66	57
Black, non-Hispanics .....	28	35	40	32	29	46	32
Hispanics .....	5	11	7	7	17	16	18
American Indians or Alaskan Natives	2	26	1	4	1	4	7
Nonresident aliens <sup>2</sup> .....	115	105	103	131	131	156	211
Unknown race/ethnicity or citizenship .....	78	24	74	67	52	85	93
Women							
Total, all recipients .....	142	205	243	306	300	307	383
U.S. citizens and permanent residents, total <sup>1</sup> .....	115	163	194	270	254	237	307
White, non-Hispanics .....	103	145	171	216	211	198	258
Asians .....	2	5	4	39	21	13	12
Underrepresented minorities, total .....	10	13	19	15	22	26	37
Black, non-Hispanics .....	9	7	15	12	18	18	29
Hispanics .....	1	6	3	2	2	7	7
American Indians or Alaskan Natives	0	0	1	1	2	1	1
Nonresident aliens <sup>2</sup> .....	9	22	28	31	41	59	68
Unknown race/ethnicity or citizenship .....	18	20	21	5	5	11	8

<sup>1</sup> Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

<sup>2</sup> Nonresident aliens include foreign citizens on temporary visas only.

**NOTES:** Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Engineering technologies are a summary of instructional programs that prepare individuals to support and assist engineering and related professionals or to independently provide such services. Programs stress specialized, practical knowledge related to the mathematical, scientific, or technical aspects of engineering and related sciences.

**SOURCES:** Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93

**Table 33. Number of earned bachelor's degrees awarded in health fields,  
by race/ethnicity and sex of recipient: 1985-93**

Page 1 of 1

Citizenship and race/ethnicity	1985	1987	1989	1990	1991	1992	1993
Total							
Total, all recipients .....	65,612	64,399	60,114	59,852	60,228	62,655	67,942
U.S. citizens and permanent residents, total <sup>1</sup> .....	63,502	61,894	58,026	57,118	57,660	60,605	65,709
White, non-Hispanics .....	55,520	53,903	49,854	48,405	48,798	51,328	55,482
Asians .....	1,311	1,535	1,698	1,823	1,981	2,229	2,469
Underrepresented minorities, total .....	6,671	6,456	6,474	6,890	6,881	7,048	7,758
Black, non-Hispanics .....	3,836	3,725	3,886	4,056	4,122	4,151	4,670
Hispanics .....	2,562	2,464	2,348	2,580	2,481	2,571	2,747
American Indians or Alaskan Natives .....	273	267	240	254	278	326	341
Nonresident aliens <sup>2</sup> .....	819	777	747	796	978	863	1,013
Unknown race/ethnicity or citizenship .....	1,291	1,728	1,341	1,938	1,590	1,187	1,220
Men							
Total, all recipients .....	9,931	9,346	9,068	9,418	9,855	10,305	11,467
U.S. citizens and permanent residents, total <sup>1</sup> .....	9,386	8,857	8,636	8,943	9,279	9,803	10,927
White, non-Hispanics .....	8,117	7,597	7,339	7,521	7,717	8,230	9,081
Asians .....	298	329	398	392	468	541	561
Underrepresented minorities, total .....	971	931	899	1,030	1,094	1,032	1,285
Black, non-Hispanics .....	484	469	451	502	525	530	673
Hispanics .....	438	417	401	491	519	441	545
American Indians or Alaskan Natives .....	49	45	47	37	50	61	67
Nonresident aliens <sup>2</sup> .....	280	261	226	242	283	248	278
Unknown race/ethnicity or citizenship .....	265	228	206	233	293	254	262
Women							
Total, all recipients .....	55,681	55,053	51,046	50,434	50,373	52,350	56,475
U.S. citizens and permanent residents, total <sup>1</sup> .....	54,116	53,037	49,390	48,175	48,381	50,802	54,782
White, non-Hispanics .....	47,403	46,306	42,515	40,884	41,081	43,098	46,401
Asians .....	1,013	1,206	1,300	1,431	1,513	1,688	1,908
Underrepresented minorities, total .....	5,700	5,525	5,575	5,860	5,787	6,016	6,473
Black, non-Hispanics .....	3,352	3,256	3,435	3,554	3,597	3,621	3,997
Hispanics .....	2,124	2,047	1,947	2,089	1,962	2,130	2,202
American Indians or Alaskan Natives .....	224	222	193	217	228	265	274
Nonresident aliens <sup>2</sup> .....	539	516	521	554	695	615	735
Unknown race/ethnicity or citizenship .....	1,026	1,500	1,135	1,705	1,297	933	958

<sup>1</sup> Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

<sup>2</sup> Nonresident aliens include foreign citizens on temporary visas only.

**NOTES:** Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

**SOURCES:** Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93

**Table 34. Number of earned master's degrees awarded in health fields,  
by race/ethnicity and sex of recipient: 1985-93**

Page 1 of 1

Citizenship and race/ethnicity	1985	1987	1989	1990	1991	1992	1993
Total							
Total, all recipients .....	17,525	18,580	19,410	20,482	21,398	23,213	25,823
U.S. citizens and permanent residents, total <sup>1</sup> .....	16,359	16,754	17,441	18,407	19,269	21,040	23,423
White, non-Hispanics .....	14,565	14,902	15,474	16,284	17,002	18,464	20,509
Asians .....	476	464	537	600	600	709	830
Underrepresented minorities, total .....	1,318	1,388	1,430	1,523	1,667	1,867	2,084
Black, non-Hispanics .....	819	811	814	886	1,004	1,092	1,251
Hispanics .....	438	518	535	558	572	685	718
American Indians or Alaskan Natives .....	61	59	81	79	91	90	115
Nonresident aliens <sup>2</sup> .....	845	869	1,073	1,082	1,238	1,310	1,466
Unknown race/ethnicity or citizenship .....	321	957	896	993	891	863	934
Men							
Total, all recipients .....	4,155	3,915	4,239	4,554	4,499	4,714	5,248
U.S. citizens and permanent residents, total <sup>1</sup> .....	3,646	3,322	3,577	3,803	3,747	3,966	4,428
White, non-Hispanics .....	3,170	2,931	3,094	3,309	3,215	3,399	3,807
Asians .....	174	146	162	181	170	215	222
Underrepresented minorities, total .....	302	245	321	313	362	352	399
Black, non-Hispanics .....	179	134	173	158	194	171	207
Hispanics .....	109	99	128	135	146	158	172
American Indians or Alaskan Natives .....	14	12	20	20	22	23	20
Nonresident aliens <sup>2</sup> .....	426	444	519	474	543	539	610
Unknown race/ethnicity or citizenship .....	83	149	143	277	209	209	210
Women							
Total, all recipients .....	13,370	14,665	15,171	15,928	16,899	18,499	20,575
U.S. citizens and permanent residents, total <sup>1</sup> .....	12,713	13,432	13,864	14,604	15,522	17,074	18,995
White, non-Hispanics .....	11,395	11,971	12,380	12,975	13,787	15,065	16,702
Asians .....	302	318	375	419	430	494	608
Underrepresented minorities, total .....	1,016	1,143	1,109	1,210	1,305	1,515	1,685
Black, non-Hispanics .....	640	677	641	728	810	921	1,044
Hispanics .....	329	419	407	423	426	527	546
American Indians or Alaskan Natives .....	47	47	61	59	69	67	95
Nonresident aliens <sup>2</sup> .....	419	425	554	608	695	771	856
Unknown race/ethnicity or citizenship .....	238	808	753	716	682	654	724

<sup>1</sup> Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

<sup>2</sup> Nonresident aliens include foreign citizens on temporary visas only.

**NOTES:** Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

**SOURCES:** Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93

**Table 35. Number of earned doctoral degrees awarded in health fields,  
by race/ethnicity and sex of recipient: 1985-93**

Page 1 of 1

Citizenship and race/ethnicity	1985	1987	1989	1990	1991	1992	1993
Total							
Total, all recipients .....	729	800	974	956	1,042	1,112	1,201
U.S. citizens and permanent residents, total <sup>1</sup> .....	575	635	751	756	828	844	943
White, non-Hispanics .....	502	554	685	667	722	735	806
Asians .....	34	36	23	39	45	53	48
Underrepresented minorities, total .....	39	45	43	50	61	56	89
Black, non-Hispanics .....	23	31	29	32	40	38	59
Hispanics .....	14	11	11	17	16	13	24
American Indians or Alaskan Natives .....	2	3	3	1	5	5	6
Nonresident aliens <sup>2</sup> .....	99	96	134	166	171	226	214
Unknown race/ethnicity or citizenship .....	55	69	89	34	43	42	44
Men							
Total, all recipients .....	289	325	345	364	373	402	424
U.S. citizens and permanent residents, total <sup>1</sup> .....	190	226	221	239	248	221	260
White, non-Hispanics .....	152	191	195	205	200	177	209
Asians .....	20	19	13	17	21	23	25
Underrepresented minorities, total .....	18	16	13	17	27	21	26
Black, non-Hispanics .....	11	12	9	14	17	14	18
Hispanics .....	6	3	4	2	7	4	8
American Indians or Alaskan Natives .....	1	1	0	1	3	3	0
Nonresident aliens <sup>2</sup> .....	63	61	87	101	101	159	138
Unknown race/ethnicity or citizenship .....	36	38	37	24	24	22	26
Women							
Total, all recipients .....	440	475	629	592	669	710	777
U.S. citizens and permanent residents, total <sup>1</sup> .....	385	409	530	517	580	623	683
White, non-Hispanics .....	350	363	490	462	522	558	597
Asians .....	14	17	10	22	24	30	23
Underrepresented minorities, total .....	21	29	30	33	34	35	63
Black, non-Hispanics .....	12	19	20	18	23	24	41
Hispanics .....	8	8	7	15	9	9	16
American Indians or Alaskan Natives .....	1	2	3	0	2	2	6
Nonresident aliens <sup>2</sup> .....	36	35	47	65	70	67	76
Unknown race/ethnicity or citizenship .....	19	31	52	10	19	20	18

<sup>1</sup> Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

<sup>2</sup> Nonresident aliens include foreign citizens on temporary visas only.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**Table 36. First-professional degrees awarded, by race/ethnicity and sex of recipient: 1985-93**

Page 1 of 1

Citizenship and race/ethnicity	1985	1987	1989	1990	1991	1992	1993
<b>Total</b>							
Total, all recipients .....	75,562	72,120	71,318	71,551	72,636	74,801	76,068
U.S. citizens and permanent residents, total <sup>1</sup> .....	70,677	69,643	68,525	69,224	70,448	71,960	73,520
White, non-Hispanics .....	63,225	61,291	59,597	59,376	59,692	59,869	60,338
Asians .....	1,816	2,222	2,903	3,299	3,772	4,757	5,107
Underrepresented minorities, total .....	5,636	6,130	6,025	6,549	6,984	7,334	8,075
Black, non-Hispanics .....	3,029	3,341	3,017	3,337	3,535	3,568	4,078
Hispanics .....	2,359	2,491	2,746	2,959	3,191	3,472	3,632
American Indians or Alaskan Natives	248	298	262	253	258	294	365
Nonresident aliens <sup>2</sup> .....	862	872	960	1,036	1,086	1,342	1,548
Unknown race/ethnicity .....	4,023	1,605	1,833	1,291	1,102	1,499	1,000
<b>Men</b>							
Total, all recipients .....	50,780	46,841	45,399	44,309	44,226	45,459	45,565
U.S. citizens and permanent residents, total <sup>1</sup> .....	47,138	45,266	43,646	42,814	42,760	43,648	43,849
White, non-Hispanics .....	42,635	40,314	38,499	37,367	36,926	37,089	36,896
Asians .....	1,152	1,391	1,772	1,946	2,171	2,728	2,831
Underrepresented minorities, total .....	3,351	3,561	3,375	3,501	3,663	3,831	4,122
Black, non-Hispanics .....	1,623	1,798	1,568	1,627	1,653	1,620	1,777
Hispanics .....	1,552	1,583	1,661	1,738	1,868	2,054	2,156
American Indians or Alaskan Natives	176	180	146	136	142	157	189
Nonresident aliens <sup>2</sup> .....	681	624	671	702	762	948	1,103
Unknown race/ethnicity .....	2,961	951	1,082	793	704	863	613
<b>Women</b>							
Total, all recipients .....	24,782	25,279	25,919	27,242	28,410	29,342	30,503
U.S. citizens and permanent residents, total <sup>1</sup> .....	23,539	24,377	24,879	26,410	27,688	28,312	29,671
White, non-Hispanics .....	20,590	20,977	21,098	22,009	22,766	22,780	23,442
Asians .....	664	831	1,131	1,353	1,601	2,029	2,276
Underrepresented minorities, total .....	2,285	2,569	2,650	3,048	3,321	3,503	3,953
Black, non-Hispanics .....	1,406	1,543	1,449	1,710	1,882	1,948	2,301
Hispanics .....	807	908	1,085	1,221	1,323	1,418	1,476
American Indians or Alaskan Natives	72	118	116	117	116	137	176
Nonresident aliens <sup>2</sup> .....	181	248	289	334	324	394	445
Unknown race/ethnicity .....	1,062	654	751	498	398	636	387

1 Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2 Nonresident aliens include foreign citizens on temporary visas only.

**NOTE:** First-professional degrees are defined as those that require at least 6 years of college work for completion and 2 years of preprofessional training.

**SOURCES:** Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93

**Table 37. First-professional degrees awarded in health fields,  
by race/ethnicity and sex of recipient: 1985-93**

Page 1 of 1

Citizenship and race/ethnicity	1985	1987	1989	1990	1991	1992	1993
<b>Total</b>							
Total, all recipients .....	30,601	29,400	29,518	28,787	28,183	28,303	29,475
U.S. citizens and permanent residents, total <sup>1</sup> .....	28,273	28,484	28,663	28,041	27,207	27,082	28,308
White, non-Hispanics .....	24,856	24,467	24,094	23,027	21,958	21,333	22,076
Asians .....	1,142	1,394	1,978	2,290	2,472	2,909	3,317
Underrepresented minorities, total .....	2,275	2,623	2,591	2,724	2,777	2,840	2,915
Black, non-Hispanics .....	1,073	1,269	1,159	1,251	1,285	1,288	1,350
Hispanics .....	1,057	1,217	1,323	1,373	1,381	1,417	1,426
American Indians or Alaskan Natives .....	145	137	109	100	111	135	139
Nonresident aliens <sup>2</sup> .....	420	462	482	535	506	703	782
Unknown race/ethnicity .....	1,908	454	373	211	470	518	385
<b>Men</b>							
Total, all recipients .....	21,675	20,011	19,596	18,562	17,777	17,694	17,704
U.S. citizens and permanent residents, total <sup>1</sup> .....	19,963	19,394	19,021	18,105	17,126	16,912	16,957
White, non-Hispanics .....	17,796	16,925	16,298	15,232	14,207	13,607	13,608
Asians .....	749	870	1,217	1,363	1,440	1,718	1,859
Underrepresented minorities, total .....	1,418	1,599	1,506	1,510	1,479	1,587	1,490
Black, non-Hispanics .....	585	691	581	606	573	604	556
Hispanics .....	728	822	861	847	841	907	858
American Indians or Alaskan Natives .....	105	86	64	57	65	76	76
Nonresident aliens <sup>2</sup> .....	311	303	313	327	328	474	510
Unknown race/ethnicity .....	1,401	314	262	130	323	308	237
<b>Women</b>							
Total, all recipients .....	8,926	9,389	9,922	10,225	10,406	10,609	11,771
U.S. citizens and permanent residents, total <sup>1</sup> .....	8,310	9,090	9,642	9,936	10,081	10,170	11,351
White, non-Hispanics .....	7,060	7,542	7,796	7,795	7,751	7,726	8,468
Asians .....	393	524	761	927	1,032	1,191	1,458
Underrepresented minorities, total .....	857	1,024	1,085	1,214	1,298	1,253	1,425
Black, non-Hispanics .....	488	578	578	645	712	684	794
Hispanics .....	329	395	462	526	540	510	568
American Indians or Alaskan Natives .....	40	51	45	43	46	59	63
Nonresident aliens <sup>2</sup> .....	109	159	169	208	178	229	272
Unknown race/ethnicity .....	507	140	111	81	147	210	148

<sup>1</sup> Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

<sup>2</sup> Nonresident aliens include foreign citizens on temporary visas only.

**NOTES:** First-professional degrees are defined as those that require at least 6 years of college work for completion and 2 years of preprofessional training.

Health fields include: Chiropractic, Dentistry, Medicine, Optometry, Osteopathic Medicine, Pharmacy, Podiatry, and Veterinary Medicine.

**SOURCES:** Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93

**Table 38. First-professional degrees awarded in non-health fields,  
by race/ethnicity and sex of recipient: 1985-93**

Page 1 of 1

Citizenship and race/ethnicity	1985	1987	1989	1990	1991	1992	1993
Total							
Total, all recipients .....	44,961	42,720	41,800	42,764	44,453	46,498	46,593
U.S. citizens and permanent residents, total <sup>1</sup> .....	42,404	41,159	39,862	41,183	43,241	44,878	45,212
White, non-Hispanics .....	38,369	36,824	35,503	36,349	37,734	38,536	38,262
Asians .....	674	828	925	1,009	1,300	1,848	1,790
Underrepresented minorities, total .....	3,361	3,507	3,434	3,825	4,207	4,494	5,160
Black, non-Hispanics .....	1,956	2,072	1,858	2,086	2,250	2,280	2,728
Hispanics .....	1,302	1,274	1,423	1,586	1,810	2,055	2,206
American Indians or Alaskan Natives .....	103	161	153	153	147	159	226
Nonresident aliens <sup>2</sup> .....	442	410	478	501	580	639	766
Unknown race/ethnicity .....	2,115	1,151	1,460	1,080	632	981	615
Men							
Total, all recipients .....	29,105	26,830	25,803	25,747	26,449	27,765	27,861
U.S. citizens and permanent residents, total <sup>1</sup> .....	27,175	25,872	24,625	24,709	25,634	26,736	26,892
White, non-Hispanics .....	24,839	23,389	22,201	22,135	22,719	23,482	23,288
Asians .....	403	521	555	583	731	1,010	972
Underrepresented minorities, total .....	1,933	1,962	1,869	1,991	2,184	2,244	2,632
Black, non-Hispanics .....	1,038	1,107	987	1,021	1,080	1,016	1,221
Hispanics .....	824	761	800	891	1,027	1,147	1,298
American Indians or Alaskan Natives .....	71	94	82	79	77	81	113
Nonresident aliens <sup>2</sup> .....	370	321	358	375	434	474	593
Unknown race/ethnicity .....	1,560	637	820	663	381	555	376
Women							
Total, all recipients .....	15,856	15,890	15,997	17,017	18,004	18,733	18,732
U.S. citizens and permanent residents, total <sup>1</sup> .....	15,229	15,287	15,237	16,474	17,607	18,142	18,320
White, non-Hispanics .....	13,530	13,435	13,302	14,214	15,015	15,054	14,974
Asians .....	271	307	370	426	569	838	818
Underrepresented minorities, total .....	1,428	1,545	1,565	1,834	2,023	2,250	2,528
Black, non-Hispanics .....	918	965	871	1,065	1,170	1,264	1,507
Hispanics .....	478	513	623	695	783	908	908
American Indians or Alaskan Natives .....	32	67	71	74	70	78	113
Nonresident aliens <sup>2</sup> .....	72	89	120	126	146	165	173
Unknown race/ethnicity .....	555	514	640	417	251	426	239

<sup>1</sup> Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

<sup>2</sup> Nonresident aliens include foreign citizens on temporary visas only.

**NOTES:** First-professional degrees are defined as those that require at least 6 years of college work for completion and 2 years of preprofessional training.

Non-health fields include: Law, Divinity/Ministry, and Rabbinical and Talmudic Studies.

**SOURCES:** Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93

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